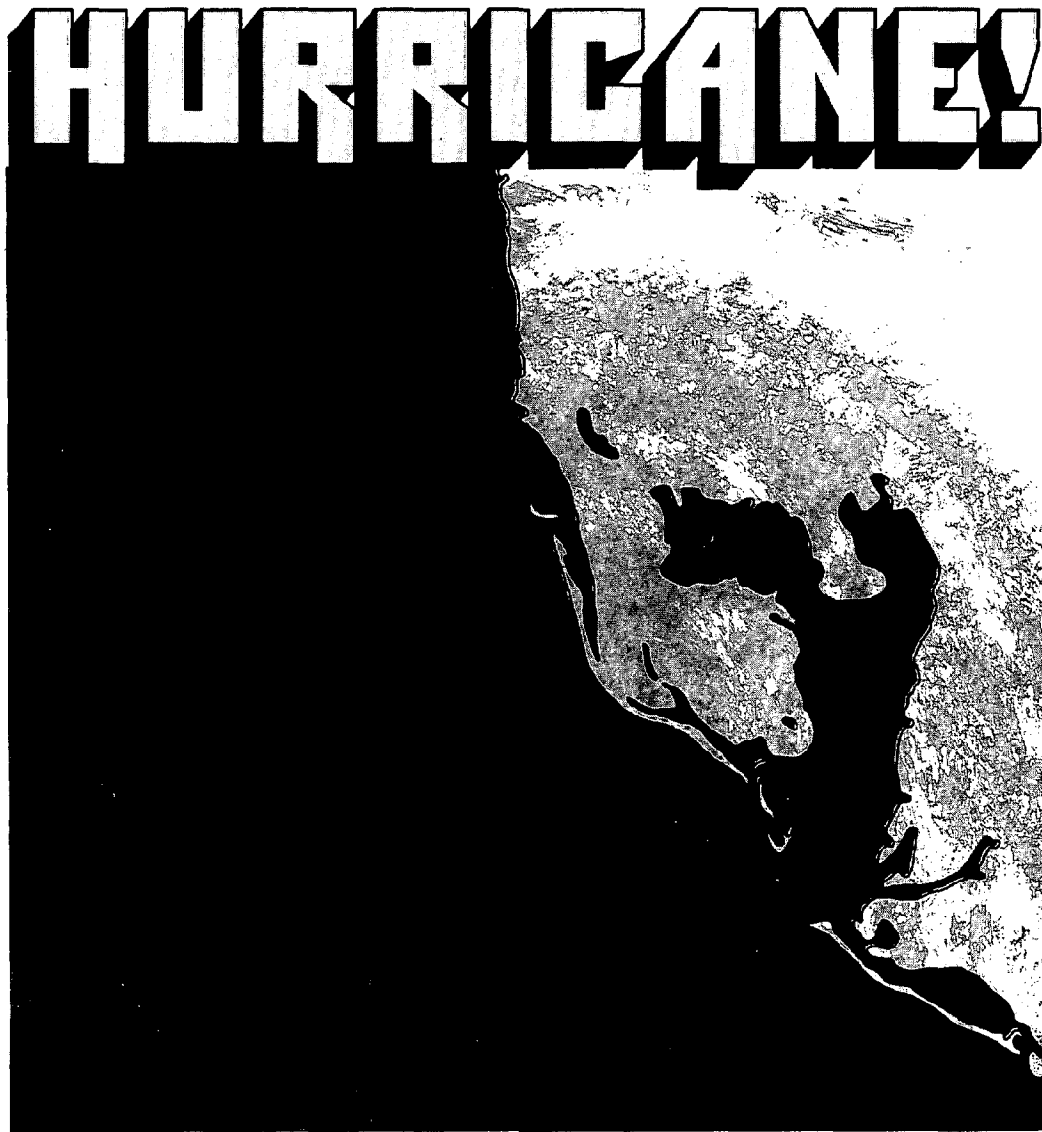


Critique of the Tampa Bay Region Hurricane Evacuation Exercise

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A Multi-Level Evaluation of the 1982 Hurricane
Evacuation Emergency Operations Simulation

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TAMPA BAY REGION HURRICANE EVACUATION
EXERCISE CRITIQUE:

A Multilevel Evaluation of the 1982
Emergency Operations Simulation

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Finally, the regional meteorological scenario was based, in part, on a hypothetical hurricane approach scenario documented in 1981 by Dr. R. H. Simpson and H. Riehl.

INTRODUCTION

The Tampa Bay Region has been identified as one of the most hurricane-vulnerable areas of the United States by the Federal Emergency Management Agency (FEMA) and the National Oceanic and Atmospheric Administration (NOAA). Since January of 1980, the Tampa Bay Regional Planning Council (TBRPC), in conjunction with the four county civil defense/emergency management authorities, has been engaged in the development of a comprehensive hurricane evacuation plan for Hillsborough, Manatee, Pasco and Pinellas Counties. Through funds provided primarily by the U.S. Army Corps of Engineers - Jacksonville District, the nation's first regional quantitative hurricane evacuation plan was completed in Spring, 1981. The Tampa Bay Region Hurricane Evacuation Plan; made up of a Technical Data Report, Implementation Guides, and a Public Information Program, set forth a regional system of hurricane evacuation decision-making for the local governments of the Region.

The Technical Data Report utilized NOAA's state-of-the-art SLOSH (Sea, Lake, and Overland Surges from Hurricanes) numerical storm surge model and a computerized transportation model to specifically identify evacuation zones and quantify evacuation times. The effort resulted in a comprehensive framework into which the local governments of the Region have integrated their individual hurricane evacuation operations plans. The Regional Evacuation Plan was adopted in April, 1981 as the hurricane evacuation decision-making system by the local governments of the Region.

The Plan sets forth a regional process of evacuation scenario and evacuation time identification requiring close communication and coordination between the four counties, National Hurricane Center (NHC), National Weather Service local office (NWS), and the State of Florida. The coordination necessary is centered around a sophisticated base of vulnerability data for each county, as well as data on evacuation impacts between and among the four counties.

Like any emergency plan, regardless of its sophistication or accuracy, the actions it calls for must be feasible, practical and capable of being quickly implemented in order to save lives. The only method of ultimately testing this true viability of a plan is to actually implement the plan as an exercise under a simulated hurricane approach situation. In late 1981, TBRPC and the four counties of the Region were given the opportunity to conduct such a test; and on May 6, 1982, a total-system regional hurricane evacuation exercise was conducted. This document describes, analyzes and evaluates the results of the Exercise as well as sets forth recommendations for increased hurricane preparedness in the Tampa Bay Region.

CHAPTER I

EXERCISE DOCUMENTATION

On November 12, 1981, TBRPC was awarded a grant from the U.S. Office of Coastal Zone Management, National Oceanic and Atmospheric Administration through the Florida Office of Coastal Management, Department of Environmental Regulation to conduct a regional hurricane evacuation exercise. The grant, in the amount of \$22,500, supported Exercise pre-planning, scenario formulation, the 8-hour Exercise itself, post-Exercise critique sessions, and this critique document.

To support State of Florida participation in the Regional Exercise, the Florida Bureau of Disaster Preparedness, Department of Community Affairs supplemented the original grant through a contract with TBRPC for \$10,000 bringing the total Exercise project cost to \$32,500. The scope of services provided by TBRPC for State participation included the design of the hurricane scenario to include State participation, the development and coordination of training programs for State participants, production of briefing packets and decision-making maps, incorporation of State level participants in the post-Exercise critique process, and administrative and coordination support for State participants.

The type of exercise conducted was an Emergency Operations Simulation or "EOS". (see Glossary).

EXERCISE ADMINISTRATION

Conducting a total-system exercise of an emergency as far-reaching as regional hurricane evacuation requires the participation of a multitude of agencies and individuals. Since the Exercise simulated all elements of local hurricane evacuation operations except for the actual total relocation of the vulnerable population, substantial costs also were incurred. To reimburse such local operational costs, TBRPC directly passed on \$16,000 of the grant award to the four counties (\$4,000 to each county) for EOS pre-planning, activation of emergency operating centers (EOCs), communications, transportation, shelter activation, and equipment.

TBRPC formulated, planned, and coordinated the May 6 Exercise through its disaster preparedness program staff. The actual evacuation operations simulation was directed and carried out by the following four agencies:

- Hillsborough County Office of Fire and Disaster Operations
- Manatee County Division of Civil Defense
- Pasco County Department of Disaster Preparedness
- Pinellas County Department of Civil Emergency Services

Other major participating entities were:

- Florida Bureau of Disaster Preparedness (BDP)
- National Weather Service - Ruskin (NWS)
- National Hurricane Center (NHC)

- Emergency Broadcast System (EBS)
- Public Broadcast Service (PBS)

To simulate local requests for state emergency assistance and to evaluate state response, TBRPC also planned and coordinated a Post-EOS or "re-entry" phase of the Exercise held on May 10. The operations of this 8-hour phase of the Exercise were directed and primarily conducted by the Florida Bureau of Disaster Preparedness. State agencies participating in the Post-EOS phase of the Exercise follow:

- Office of the Governor
- Department of Agricultural and Consumer Services
- Department of Environmental Regulation
- Game and Fresh Water Fish Commission
- Department of Health and Rehabilitative Services
- Department of Highway Safety and Motor Vehicles
- Department of Military Affairs (National Guard)
- Department of Natural Resources (Marine Patrol)
- Department of Transportation

The May 10 Post-EOS phase of the Exercise also included communications participation by Brevard, Lake, Marion, Orange, Osceola, Seminole, Sumter, Polk, and Volusia Counties.

EXERCISE SCOPE

The scope of the Exercise encompassed the following major elements:

- Regional meteorological scenario
- County/municipal operations
- Evacuation level identification
- Public warning and awareness
- State response and assistance to local governments
- Regional monitoring and control
- Critique/evaluation and recommendations

Each of these major elements are described in the sections that follow. A Glossary defining technical EOS terminology appears immediately after the Appendices of this document.

Regional Meteorological Scenario

The first element needed to conduct any emergency exercise is a scenario, or a time-defined sequence of the hazard(s) as that hazard confronts those that must respond to it. The hazard ultimately became an approaching major (Category 3) landfalling hurricane (Hurricane "Isabel").

The regional meteorological scenario for the Exercise (EOS) was designed and formulated by TBRPC and was composed of 23 hypothetical hurricane advisories, associated local action statements/severe weather statements, and three conference calls initiated by the National Hurricane Center and the Tampa Area Office (Ruskin) of the National Weather Service. The entire regional meteorological scenario appears as Appendix A.

The simulation of emergency operations by the counties and municipalities within the Region on May 6, 1982 and by the State on May 10 were based on this hurricane approach scenario. More detailed county operations scenarios were locally formulated and based on this regional scenario. The time schedules for both the May 6 EOS and May 10 Post-EOS appear as appendices B and C respectively.

The successive advisories begin at - 72 CPA (or 72 hours before either landfall or the "closest point of approach" of the eye of the hurricane to Tampa Bay) and continue through landfall to +18 CPA. These advisories are issued by the National Hurricane Center (NHC) at 6-hour intervals and then at 2-hour or 3-hour intermediate intervals until the storm has ceased to threaten major land areas of marine interests.

As a "hurricane watch" is issued by an NHC advisory, local offices of the National Weather Service affected by the "watch" begin to attach local action statements or severe weather statements to the advisories, interpreting the NHC advice for its more immediate meaning to its local counties that it serves. These local action statements continue to accompany NHC advisories until the hurricane ceases to threaten the local (west central Florida) counties.

To discuss potential evacuation decisions and other preparedness information, three conference calls were held between the NHC, Tampa Area Office (Ruskin), and the four counties.

Advisories, local action statements, and severe weather statements are actually issued via the National Weather Wire Service (NWWS) teletype. For purposes of the EOS, the pre-formulated messages were released by the county EOS "controllers" at the appropriate times to simulate NWWS teletype printout. (See Appendix A).

Conference calls were simulated just as they would actually occur over the National Warning system (NAWAS) restricted land line.

Finally, SLOSH numerical storm surge model data that would be generated by Hurricane Isabel at -48 and -24 CPA were included in the scenario at the proper time.

The real time (actual time of day on May 6, 1982) that the advisory, local action statement or conference call were simulated to take place was "compressed" to allow the simulation of 18 hours of hurricane approach to take place in 8 actual hours. (See Appendix B).

The Tampa Bay Region Hurricane Evacuation Plan Technical Data Report sets forth an evacuation level identification process for the extent and timing of the issuance of evacuation orders. That process requires the monitoring of certain key hurricane characteristics as communicated by the NHC advisories and is described in an upcoming section.

County/Municipal Operations

All four County Emergency Operating Centers (EOCs - see Glossary) were totally activated for the Exercise. The Exercise marked the first time

that three of the four County EOCs were ever totally activated. The locations of the County EOCs are graphically presented in Appendix D.

As a pre-planning task for the Exercise, TBRPC worked with each County civil defense/emergency management department to formulate a County Operations Scenario (see Glossary) for each of the four Counties. These four operations scenarios all were based on the regional meteorological scenario and included all messages to be communicated and actions to be simulated by County departments as well as municipalities. The four County Operations Scenarios (Hillsborough, Manatee, Pasco and Pinellas) are included as Appendices E, F, G and H respectively.

Emergency communications channels utilized throughout the Exercise by county and municipal agencies were the National Warning System (NAWAS), National Weather Teletype, and emergency radio frequencies including local government civil defense, police point-to-point, fire mutual aid, Red Cross, State civil defense CDNARS (Civil Defense National Radio System), Coast Guard, Civil Air Patrol, RACES (Radio Amateur Communications Emergency System), HEAR (Hospital Emergency Administrative Radio), and other county/municipal departmental frequencies. For purposes of regional monitoring of intergovernmental communications, all county-to-county, State, NHC, NWS, and EBS transmissions during the Exercise were made utilizing the NAWAS restricted landline system.

In addition to the total activation of EOCs by the four counties, approximately 20 municipalities throughout the Region participated in the Exercise by fully activating their respective municipal EOCs. Other municipalities participated only in the communications component of the Exercise.

Many activities were simulated outside of EOCs throughout the Region with the actual physical deployment of emergency manpower and equipment. Such activities included emergency public transportation of elderly/handicapped, nursing home evacuations, hospital evacuations, mobile home park evacuations, traffic control, mass casualty drills, public shelter activations, and volunteer residential evacuations. A listing of the key Exercise local events and activities appears as Appendix I.

Evacuation Level Identification

Under the Tampa Bay Region Hurricane Evacuation Plan Technical Data Report decision-making process, each county of the Region strives to identify one of five (5) degrees of evacuation that is or will be confronting it from the approaching hurricane. These evacuation levels (see Glossary) are coded Evacuation Levels A, B, C, D or E. Any approaching hurricane can be categorized as confronting a county with one of these Levels. The Evacuation Level is dependent on many factors, the primary ones being the intensity of the hurricane and its directional track. Each Evacuation Level has a pre-planned size, location, and type of the population that must be relocated as well as an Evacuation time (see Glossary) needed to carry out that Level of pre-hurricane evacuation. Throughout the May 6 Exercise, all four counties were engaged in a continuous evacuation level identification process.

Public Warning and Awareness

The effectiveness of a quantitative hurricane evacuation plan is the ability to convey information to the vulnerable residents both before a hurricane threatens (pre-season public information) and also during the actual approach of a hurricane. Pre-season public information was provided as part of the TBRPC Evacuation Plan project in the form of an 8-page map/text newspaper supplement tabloid. One of the objectives of the Exercise was to experiment with methods of conveying pre-quantified emergency information to the public during the storm's actual approach. Such information includes:

- Evacuation level confronting each county
- Resident's evacuation zone (see Glossary)
- Resident's evacuation route
- Resident's public evacuation shelter
- Actual issuance of evacuation order (see Glossary)

To test the feasibility and effectiveness of existing public communication modes, tests utilizing two forms of the media were conducted: the Emergency Broadcast System (EBS), for audio transmission of public information (radio/TV) and the Public Broadcast Station WEDU-TV (PBS), for audio and video transmission of public information.

42 EBS-member radio/TV stations of the Region were requested by TBRPC and the EBS Control Station to participate in the first comprehensive test of the Tampa Operational Area EBS as part of the May 6 Exercise. Although the Federal Communications Commission requires periodic tests of EBS monitoring equipment by each member station, those exercises do not actually test whether a station has the capability to pick up, tape (if necessary), and re-broadcast an actual emergency statement to its listening audience. So, TBRPC and WSUN radio station (the Primary Common Program Control Station for the Tampa Operational Area EBS) designed a comprehensive test of the EBS for hurricane evacuation. Pre-formulated messages were utilized to correspond to the emergency operations taking place on May 6 and these messages were actually transmitted to member EBS Stations at unannounced points in time that day. The member EBS stations were then responsible for monitoring the Control Station - WSUN and carrying out their EBS function to the public.

A comprehensive hurricane evacuation public information program also requires a video capability to convey the color-coded evacuation level system of vulnerability as well as information such as evacuation zones, evacuation routes, and assigned public shelters. To test whether such a large amount of vulnerability data could be simply and graphically displayed via television during the approach of a hurricane, TBRPC worked with Public Broadcast Station WEDU-TV Channel 3 to develop video tape showing such information. As a public service, WEDU-TV participated in the Exercise by broadcasting the tape throughout the day of May 6 when triggered by an EBS statement for each of the four counties.

State Response and Assistance to Local Governments

In addition to participating in the pre-hurricane evacuation decision-making process, the State of Florida, through the Bureau of Disaster Pre-

paredness, plays a key role in the immediate response and recovery efforts of local governments in the wake of the hurricane.

To simulate both the evacuation and recovery roles played by the State, the Bureau of Disaster Preparedness (Bureau) activated the State EOC in Tallahassee and participated in both the May 6 EOS and the May 10 Post-EOS Re-entry exercise. The Bureau was a party to the three conference calls of the EOS and ultimately provided resource support for the County evacuation orders through a State executive order on May 6. On May 10, recovery assistance requests to the State from the Region's four counties were simulated through a "table-top" re-entry exercise. At the same time, the Bureau was simulating immediate response coordination with other central and east Florida counties receiving later effects from "Hurricane Isabel."

Regional Monitoring and Control

TBRPC has no actual operational role in hurricane evacuation. In addition to designing and formulating the EOS, TBRPC established a Regional Exercise Control Point (see Glossary). This location was where all Exercise activities were coordinated, all intergovernmental communications were monitored and taped, and where an information center for the press was provided. TBRPC utilized the facilities of the Pinellas County Civil Emergency Services Department at the St. Petersburg/Clearwater International Airport for the Regional Exercise Control Point.

In order to conduct an intergovernmental communications and coordination evaluation (see Chapter X), TBRPC monitored and taped all county-to-county, county-to-State, county-to-NHC, etc. communications transmissions. This monitoring process is graphically illustrated as Appendix J. Based on the tapes of all intergovernmental transmissions and conversations, a summary of those communications appears as Appendix K.

The Regional Exercise Control Point also provided a center for observers of the Exercise. Numerous observers attended, ranging from local press reporters to hurricane preparedness/response officials from Jamaica. To allow for spontaneous response to hurricane-caused emergencies by local response personnel during the Exercise, most of the local emergency events were not made known to the local response agencies, with the exception of the county Exercise Controllers. To maintain such spontaneity, yet allow outside and press observers to be on site to observe the response to the various events, the type and location of each event was revealed approximately one and one-half hours prior to its occurrence on a blackboard at the Regional Exercise Control Point.

Finally, a TBRPC representative from each County was appointed to serve as the official TBRPC Observer of the Exercise activities taking place in that County. Appointed observers were Commissioner Jan Platt for Hillsborough County (and TBRPC Chairman), Commissioner Westwood Fletcher for Manatee County, New Port Richey Mayor George Henry for Pasco County, and Commissioner Gabe Cazares for Pinellas County.

Critique/Evaluation and Recommendations

This element of the Exercise is documented by this report. In the chapters that follow, evaluations and recommendations will be set forth addressing

all hurricane evacuation issues, Exercise activities, and participating agencies. These evaluations and recommendations are the results of two official Critique Sessions of the Regional Exercise Critique Committee held on May 17 and June 2, 1982. The minutes of these sessions are on file at TBRPC offices, 9455 Koger Boulevard, St. Petersburg, Florida.

Because of the large number of local, state, and federal agencies that participated in the Exercise, the following organizations were invited to serve along with TBRPC on the Regional Critique Committee:

- Hillsborough County Office of Fire and Disaster Operations
- Manatee County Civil Defense Department
- Pasco County Disaster Preparedness Department
- Pinellas County Department of Civil Emergency Services
- Florida Bureau of Disaster Preparedness
- National Weather Service - Ruskin (NWS)
- National Hurricane Center (NHC)
- Emergency Broadcast System (Common Program Control Station)
- Public Broadcast Service (WEDU-TV Channel 3)

The Committee analyzed and discussed all Exercise activities and events, reviewing tape recordings of intergovernmental communications when necessary.

The objectives toward which the evaluations and recommendations of the following Chapters are directed follow:

- An evaluation of local government internal hurricane evacuation operations (CHAPTERS III, IV, V and VI)
- An evaluation of intergovernmental decision-making/communications/co-ordination (CHAPTER X)
- An evaluation of the operational viability of the Tampa Bay Region Hurricane Evacuation Plan Technical Data Report (CHAPTER X)
- An evaluation of State level warning and recovery assistance to local governments (CHAPTER VII)
- An evaluation of meteorological agency warning to the State/local governments (CHAPTER X)
- An evaluation of the Tampa Operational Area Emergency Broadcast System (EBS) effectiveness for hurricane evacuation (CHAPTER VIII)
- An evaluation of the feasibility for video graphic hurricane evacuation public information (CHAPTER IX)

CHAPTER II

EVALUATION OF EXERCISE OBJECTIVES

The ultimate goal of the Exercise was to increase the capability to implement a safe and effective hurricane evacuation of the four counties, thus saving lives from a future approaching hurricane. There was a unanimous consensus of the Critique Committee at the critique sessions that the Exercise did indeed increase such hurricane evacuation capability. Based on that consensus, it was recommended that another exercise of this type be conducted to coincide with a future update of the Regional Hurricane Evacuation Plan Technical Data Report. Currently, efforts are being made to conduct an update of the Technical Data Report prior to the 1984 hurricane season.

The Exercise included participation by many local, areawide, and state agencies that have major responsibilities in emergency preparedness and response to large-scale hazards. Each of these agencies participated to meet its own set of increased hurricane preparedness objectives. However, the major objectives of both the local and state emergency management agencies are outlined and evaluated below:

LOCAL EMERGENCY MANAGEMENT OBJECTIVES

Objective: To test the accuracy and operational viability of the evacuation level identification and decision-making process of the Tampa Bay Region Hurricane Evacuation Plan Technical Data Report.

Throughout the 8-hour EOS, all four counties utilized the Technical Data Report data base to identify their respective evacuation levels and make other key evacuation decisions. This afforded an excellent opportunity to test the accuracy and viability of that data base, thus meeting this Exercise objective.

Objective: To exercise the coordinated local response and assignment of resources under simulated hurricane approach and landfall conditions.

The four counties and approximately 20 municipalities totally activated their EOCs, responding to one central and realistic hurricane approach scenario. This allowed the exercising of inter-local communications and other coordinative emergency activities, thus meeting this Exercise objective.

Objective: To exercise evacuation decision-making and operations involving all elements of the local emergency organizations(s).

By totally activating county and municipal EOCs, all major departments of the county or city (not just the civil defense/emergency management departments) simulated the type of emergency operations that they would

actually undertake in an actual hurricane approach. Therefore, this Exercise objective was met.

Objective: To identify additional training needed by personnel of the local emergency organizations(s) in responding to the land-fall of a hurricane.

Since activation of county and municipal EOCs require that all major county and city department representatives report to the EOC for briefings and emergency activities, the opportunity for civil defense officials to ascertain whether those departmental representatives need additional training was provided. Since participating counties and cities did activate their EOCs, this Exercise objective was met.

Objective: To identify any further modifications or improvements needed in local hurricane evacuation plans and/or procedures.

The Exercise was a total-system EOS, exercising all hurricane evacuation plan elements and standard operating procedures. As such, identification of modifications/improvements needed in such plans and procedures was accomplished, meeting this Exercise objective.

Objective: To familiarize the residents of the region with the emergency operations that are planned to protect them from the hazards of a future hurricane.

This Exercise included Emergency Broadcast System (EBS) statements on evacuation levels to the public throughout the day on May 6. These statements were supplemented by television video tapes giving details of the evacuation plan and residents' roles under the plan via the Public Broadcast Service (PBS). Thus, this Exercise objective was met.

STATE EMERGENCY MANAGEMENT OBJECTIVES

Objective: To familiarize state agency personnel with the emergency evacuation response procedures set forth in the Tampa Bay Region hurricane evacuation planning effort.

In addition to emergency operations training of state agency personnel by Bureau of Disaster Preparedness staff both before and during the Exercise, those personnel were also briefed on Tampa Bay Region Hurricane Evacuation Plan by TBRPC staff at a pre-Exercise training session. Thus, this Exercise objective was met.

Objective: To test the coordination of the scenario identification process between state and local governmental decision makers, as described in the Tampa Bay Region Hurricane Evacuation Plan, Technical Data Report.

The scenario identification process of the Technical Data Report was exercised simultaneously by state and local emergency management officials. As a pre-formulated part of the regional scenario, three conference calls provided key opportunities for state/local coordination in the process. This Exercise objective was met.

Objective: To exercise within a multi-jurisdictional framework the coordination of state and local resources to respond to the conditions present under a simulated hurricane approach and landfall.

Through the simulation of requests by local governments for state response and recovery resource assistance on May 10, and the issuance of Governor's executive orders to assist local governments on both May 6 and May 10, this coordination was exercised. Thus, this Exercise objective was met.

Objective: To exercise within a multi-jurisdictional framework state and local decision making and operations involving agencies with emergency responsibilities.

The participation of over 20 fully-activated local government EOCs, ten key state agencies, and support from nine counties outside the Tampa Bay Region, all reacting and responding to the same hurricane approach, fulfilled this objective.

Objective: To identify changes or improvements needed in the State Peacetime Emergency Plan concerning evacuation.

Based on the total activation of the state EOC and the simulated implementation of the Peacetime Emergency Plan, Bureau of Disaster Preparedness staff have identified any such changes or improvements. This Exercise objective was met.

CHAPTER III

HILLSBOROUGH COUNTY OPERATIONS EVALUATION AND RECOMMENDATIONS

The evaluation and recommendations set forth in this chapter reflect the findings of the Regional Exercise Critique Committee during critique sessions held on May 17 and June 2, 1982. They also reflect the results of Hillsborough County's internal department/municipal critique sessions held by the County Office of Fire and Emergency Operations on May 12 and May 27, 1982. The agencies invited to serve on the Regional Critique Committee are listed in the Critique/Evaluation and Recommendations section of Chapter I. The individuals that served on the Committee are listed as Appendix L.

SUMMARY OF EVACUATION ACTIVITIES AND DECISION-MAKING

Hillsborough County began monitoring the simulated hurricane ("Hurricane Isabel") when the first NHC Advisory was issued on May 4 at 6:00 a.m. (See Appendix A, Advisory #1). The County's Office of Fire and Emergency Operations participated in the first conference call at 3:00 p.m. on May 4 (see Appendix A, Conference Call #1). The County received predicted surge heights from the first SLOSH run at 6:00 a.m. on May 5 (see Appendix A, CPA-48 SLOSH Run). At 3:00 p.m. on May 5, the County participated in the second conference call (see Appendix A, Conference Call #2) and identified the potential for implementing evacuation level "C" if the hurricane became a threat to west central Florida. Also at 3:00 p.m., a meeting of the County Executive Support Group was held for briefing and review of plans/procedures.

At 9:00 a.m. on May 6, the County participated in the third conference call (see Appendix A, Conference Call #3), at which time evacuation level "D" was identified as potentially confronting the County based on the second SLOSH run (See Appendix A, CPA-24 SLOSH run). Also at 9:00 a.m., a meeting of the County Executive Policy Group was held to hear operational recommendations from Fire and Emergency Operations officials and discuss potential evacuation decision-making.

At 10:00 a.m., the County Sheriff requested an executive order from the Governor authorizing the County to direct and compel the evacuation of persons in affected areas as determined by local officials. At 12:00 noon the County EOC was activated. At 1:00 p.m., based on the decisions of the Executive Policy Group, the County issued an official evacuation order for the implementation of evacuation level "D". At this point in time, the center of Isabel was 23 hours from the Tampa Bay Region (see track map in Appendix A).

The County ended the EOS phase of the Exercise at 5:00 p.m. with the deactivation of the EOC. The County resumed participation in the Exercise at 9:00 a.m. on May 10, simulating requests for state agency assistance throughout the 8-hour Post-EOS Re-entry phase.

EVALUATION OF EVACUATION ACTIVITIES

Overall, the evacuation decision-making process and major evacuation activities went very well in Hillsborough County. This was mostly due to the enthusiastic and aggressive participation by the local elected officials that make up the Executive Policy Group of the County EOC. These officials used the Exercise to familiarize themselves with the evacuation level identification process and other hurricane monitoring techniques and vulnerability analyses.

The Hillsborough EOC activities were also successfully oriented toward training department heads, municipal officials, and other supervisory personnel in the interpretation of the technical data of the Regional Evacuation Plan Technical Data Report and Implementation Guides.

There were some problems encountered by EOC personnel in their attempt to adapt to the compressed time schedule of the Exercise. This schedule required that 10 minutes of real time represent one hour of simulation time for the last two hours of the Exercise. This led to certain message flow problems due to the fact that the incident messages did not clearly identify both real and simulated times.

The evacuation level identification by the County was excellent. Accurate evacuation levels ("C" and "D") were identified at appropriate times during the hurricane approach scenario based on the plan technical data and actual SLOSH runs. However, the timing of certain orders/actions by the Executive Policy Group were not supported by the meteorological scenario nor the pre-quantified evacuation times of the evacuation plan. First, the 10:00 a.m. request by the Group for a Governor's executive order granting the County evacuation ordering authority was unnecessary. Such evacuation ordering authority has been delegated to counties on an on-going basis by the Governor's Executive Order #80-29.

Secondly, the timing of the official evacuation order (1:00-CPA-20 hours) was not supported by the plan's pre-quantified evacuation time of 15.5 hours. Such a substantially earlier order must be closely examined in light of the increasingly higher probability of an ultimate "non-strike" when projecting 20 hours in advance. Further, the track of the hurricane at CPA-20 had only begun to recurve and was still indicating a strike around the St. Marks area. Therefore, the timing of the order at CPA-20 was not supported by the meteorological scenario.

Finally, the County's performance during the Exercise was very successful in stimulating public awareness and interest in hurricane evacuation methods and procedures. This was evidenced by the many questions phoned in and fielded by EOC personnel as well as the many requests from local civic groups for presentations based on the Exercise.

RECOMMENDATIONS

The problems with the timing of official orders/actions can be traced to a need for closer communication and coordination between the County civil defense/emergency management officials and the EOC Executive Policy Group. However, any lack of such communication or coordination during the Exercise was caused by the fact that a key civil defense officer for this coordina-

tion was acting as controller for the Exercise, removing him from any operational role during the Exercise.

Recommendation: It is recommended that in future such exercises, key officials critical to the coordination between civil defense personnel and the EOC Executive Policy Group not serve as Exercise controllers. In future such exercises, the controller should ideally be assigned to an individual outside the County Office of Fire and Emergency Operations.

Most emergency message flow problems occurring at the County EOC were attributable to the compressed time schedule followed from 3:00 p.m. to 5:00 p.m. on May 6. Such a schedule was agreed as being necessary by the four counties at Exercise pre-planning sessions.

Recommendation: It is recommended that, in future such exercises, alternatives to compressed time schedules be explored. If possible, all critical portions of the meteorological scenario should be simulated utilizing a real time schedule.

CHAPTER IV

MANATEE COUNTY OPERATIONS EVALUATION AND RECOMMENDATIONS

The evaluation and recommendations set forth in this chapter reflect the findings of the Regional Exercise Critique Committee during critique sessions held on May 17 and June 2, 1982. They also reflect the results of Manatee County's internal department/municipal critique sessions held by the County Department of Emergency Services on May 13, 1982. The agencies invited to serve on the Regional Critique Committee are listed in the Critique/Evaluation and Recommendations section of Chapter I. The individuals that served on the Committee are listed as Appendix L.

SUMMARY OF EVACUATION ACTIVITIES AND DECISION-MAKING

Manatee County began monitoring the simulated hurricane ("Hurricane Isabel") when the first NHC Advisory was issued on May 4 at 6:00 a.m. (see Appendix A, Advisory #1). The County's Civil Defense Division participated in the first conference call at 3:00 p.m. on May 4 (see Appendix A, Conference Call #1). The County received predicted surge heights from the first SLOSH run at 6:00 a.m. on May 5 (see Appendix A, CPA-48 SLOSH Run). At 3:00 p.m. on May 5, the County participated in the second conference call (see Appendix A, Conference Call #2) and identified the potential for implementing evacuation level "B" if the hurricane became a threat to west central Florida. At 6:00 p.m., a meeting of all fire departments was held for briefing and review of plans/procedures.

At 9:00 a.m. on May 6, the County participated in the third conference call (see Appendix A, Conference Call #3), at which time evacuation level "C" was identified as potentially confronting the County based on the second SLOSH Run (see Appendix A, CPA-24 SLOSH Run). Also, at 9:00 a.m., a meeting of the decision-making group and EOC personnel was held to hear operational recommendations from County Civil Defense Division officials and discuss potential evacuation decision-making.

Between 8:00 a.m. and 9:00 a.m., the mayors of the municipalities of the County were notified of Isabel's position and predicted landfall. The Board of County Commissioners was briefed at 9:00 a.m. on the characteristics of Isabel and advised that a Hurricane Warning had been issued to include Manatee County. At 12:00 noon the County EOC was activated. This marked the first time the Manatee County EOC had ever been fully activated.

Shortly after EOC activation, it was agreed upon by the decision-making group that, if Isabel continued to recurve, an evacuation order for evacuation level "C" would be issued at 2:30 p.m. At shortly after 2:00 p.m., a Governor's executive order was misinterpreted by the County as being an evacuation order from the Governor to the four counties of the Region. The County then immediately concurred with what it thought was a State evacuation order and issued the official County evacuation order at 2:04 p.m.

The County ended the EOS phase of the Exercise at 5:00 p.m. with the deactivation of the EOC. The County resumed participation in the Exercise at

9:00 a.m. on May 10, simulating requests for State agency assistance throughout the 8-hour Post-EOS Re-entry phase.

EVALUATION OF EVACUATION ACTIVITIES

In general, the evacuation decision-making process and EOC activation went very well in Manatee County. County Civil Defense Division officials took advantage of the EOC activation and other Exercise phases to familiarize and train EOC personnel as to the detailed elements of the hurricane evacuation plan.

Since this was the first total-system hurricane evacuation exercise, there were some problems encountered by EOC personnel in their attempt to adapt to the compressed time schedule of the Exercise. This schedule required that 10 minutes of real time represent one hour of simulation time for the last two hours of the Exercise. This led to certain message flow problems as it did in the other counties.

The evacuation level identification by the County was excellent. Accurate evacuation levels ("B" and "C") were identified at appropriate times during the hurricane approach scenario based on the plan technical data and actual SLOSH runs. However, some EOC personnel misunderstood the predictive nature of the SLOSH model output. At the time of the CPA-24 SLOSH run, the predicted surge heights were misinterpreted as being the heights that were being experienced at CPA-24; when, in fact, they were the maximum surge heights that were predicted for the time of eye landfall. This naturally caused some confusion over the appropriate timing of the evacuation order.

Although it ultimately did not result in a problem during the Exercise, the misinterpretation of the Governor's executive order as being a Governor's evacuation order had the potential for evoking a substantially premature local evacuation order. Any type of major emergency action taken by a local government is usually initiated through the issuance of an executive order. The ordering of evacuation ("evacuation order") is one such emergency action that is initiated by an executive order. Under Florida Statute 252, the senior elected official of the State as well as senior elected officials of local governments are authorized to issue evacuation orders. At 2:00 p.m. during the Exercise, the State simulated the issuance of a Governor's executive order rendering all available State agency assistance required to support any county evacuation orders that had been issued, specifically an evacuation order that was issued by Hillsborough County at 1:00 p.m. Because of the likeness in sound of the two terms over the oral communication's channels, the 2:00 p.m. State executive order was misinterpreted by Manatee County as being an evacuation order from the Governor to all the counties of the Tampa Bay Region. Based on this misinterpretation, Manatee County immediately issued its official evacuation order to conform to what it thought was a Governor's evacuation order. This forced the County to issue its evacuation order earlier than it originally intended.

RECOMMENDATIONS

Most emergency message flow problems occurring at the County EOC were attributable to the compressed time schedule followed from 3:00 p.m. to

5:00 p.m. on May 6. Such schedule was agreed as being necessary by the four counties at Exercise pre-planning sessions.

Recommendation: It is recommended that, in future such exercises, alternatives to compressed time schedules be explored. If possible, all critical portions of the meteorological scenario should be simulated utilizing a real time schedule.

The misinterpretation of the Governor's executive order as being an evacuation order was mainly attributable to how closely the terms sound when they are transmitted orally over emergency communications channels. Such a misinterpretation could potentially have a very dangerous impact on public safety in a future real hurricane approach.

Recommendation: Since the meaning and purpose of executive orders and evacuation orders are quite different and the impact of such orders is very critical to the public safety and intergovernmental coordination, it is recommended that the like-sounding terms "executive order" and "evacuation order" be more clearly distinguished within State/local hurricane emergency terminology.

CHAPTER V

PASCO COUNTY OPERATIONS EVALUATION AND RECOMMENDATIONS

The evaluation and recommendations set forth in this chapter reflect the findings of the Regional Exercise Critique Committee during critique sessions held on May 17 and June 2, 1982. They also reflect the results of Pasco County internal department/municipal critique sessions held by the County Office of Disaster Preparedness. The agencies invited to serve on the Regional Critique Committee are listed in the Critique/Evaluation and Recommendations section of Chapter I. The individuals that served on the Committee are listed as Appendix L.

SUMMARY OF EVACUATION ACTIVITIES AND DECISION-MAKING

Pasco County began monitoring the simulated hurricane ("Hurricane Isabel") when the first NHC Advisory was issued on May 4 at 6:00 a.m. (see Appendix A, Advisory #1). The County's Office of Disaster Preparedness participated in the first conference call at 3:00 p.m. on May 4 (see Appendix A, Conference Call #1). The County received predicted surge heights from the first SLOSH run at 6:00 a.m. on May 5 (see Appendix A, CPA-48 SLOSH Run). At 3:00 p.m. on May 5, the County participated in the second conference call (see Appendix A, Conference Call #2) and identified the potential for implementing evacuation level "C" if the hurricane became a threat to west central Florida.

At 9:00 a.m. on May 6, the County participated in the third conference call (see Appendix A, Conference Call #3), at which time evacuation level "D" was identified as potentially confronting the County based on the second SLOSH run (see Appendix A, CPA-24 SLOSH run).

At approximately 12:30 p.m., the County EOC (530 Sunset Road, New Port Richey) was activated. This marked the first time ever that Pasco County totally activated its EOC. At 1:30 p.m. (CPA-19.5 hours), based on the experiencing of five foot tides at Gulf Harbor, the County issued an official evacuation order for evacuation level "A". It was stated that an evacuation order for a higher level would probably be issued later, but that the incremental level "A" evacuation order was issued due to roads being under water already in Gulf Harbor.

Shortly after 2:00 p.m., a Governor's executive order was misinterpreted by the County as being an evacuation order from the Governor to the four counties of the Region. The County then immediately concurred with what it thought was a State evacuation order and issued the official County evacuation order at 2:05 p.m.

The County ended the EOS phase of the Exercise at 5:00 p.m. with the deactivation of the EOC. The County resumed participation in the Exercise at 9:00 a.m. on May 10, simulating requests for State agency assistance throughout the 8-hour Post-EOS Re-entry phase.

EVALUATION OF EVACUATION ACTIVITIES

For the most part, the evacuation decision-making process and related emergency activities went well in Pasco County. Elected officials as well as top administrative officials participated enthusiastically. In addition, department heads and other EOC personnel familiarized themselves with the details of the evacuation plans. The Office of Disaster Preparedness took advantage of the Exercise to train and coordinate with key emergency personnel of the County.

The first issue, which actually was not a problem during the Exercise because of the absence of real hurricane hazards, is the current location of the County EOC. The current EOC, located at 530 Sunset Road, New Port Richey, would be confronted with significant overland storm surge from a major hurricane. Such storm surge would probably render it isolated and virtually useless for the direction of County-wide emergency activities in an actual major hurricane.

The evacuation level identification by the County was excellent. Accurate evacuation levels ("C" and "D") were identified at appropriate times during the hurricane approach scenario based on the plan technical data and actual SLOSH runs. The incremental evacuation ordering of an early level "A" and a later level "D" also has its merits and is a viable decision-making tool in certain situations. However, the basis upon which the incremental level "A" order was issued during the Exercise is questioned since the meteorological scenario did not indicate five foot tides were occurring. NWS Local Statement #4 at 1:00 p.m. indicated that current tides were only two feet above normal, with four to five foot tides not expected until much later that day.

Although it ultimately did not result in a problem during the Exercise, the misinterpretation of the Governor's executive order as being a Governor's evacuation order had the potential for evoking a substantially premature local evacuation order. Any type of major emergency action taken by a local government is usually initiated through the issuance of an executive order. The ordering of evacuation ("evacuation order") is one such emergency action that is initiated by an executive order. Under Florida Statute 252, the senior elected official of the State as well as senior elected officials of local governments are authorized to issue evacuation orders. At 2:00 p.m. during the Exercise, the State simulated the issuance of a Governor's executive order rendering all available State agency assistance required to support any county evacuation orders that had been issued, specifically an evacuation order that was issued by Hillsborough County at 1:00 p.m. Because of the likeness in sound of the two terms over the oral communication's channels, the 2:00 p.m. State executive order was misinterpreted by Pasco County as being an evacuation order from the Governor to all the counties of the Tampa Bay Region. Based on this misinterpretation, Pasco County immediately issued its official evacuation order to conform to what it thought was a Governor's evacuation order. This forced the County to issue its ultimate evacuation order earlier than it originally intended.

RECOMMENDATIONS

The Emergency Operating Center (EOC), or point from which local government officials direct and control preparedness/response activities during a large-scale emergency, should be a site protected from the hazards of that emergency. The current EOC utilized by the County in the Exercise would be very vulnerable to overland hurricane storm surge due to its elevation and proximity to the Gulf of Mexico.

Recommendation: It is recommended that an alternative site be utilized by the County for its Emergency Operating Center (EOC). The site should be located at a floor level elevation above 20 feet MSL and at an inland location which would be free from overland surge-induced isolation in the event of a major hurricane.

The timing of hurricane evacuation orders (i.e. the incremental evacuation level "A" order) and other related emergency actions require several currently available predictive tools to assist the civil defense official. These include the National Warning System-NAWAS (for receiving restricted meteorological and evacuation information), the National Weather Service Teletype (for receiving continuous time-defined advisories and local action statements), and a quantitative evacuation plan. The County EOC currently does not have direct access to the National Weather Service Teletype.

Recommendation: It is recommended that the County acquire direct EOC access to the National Weather Service Teletype.

The misinterpretation of the Governor's executive order as being an evacuation order was mainly attributable to how closely the terms sound when they are transmitted orally over emergency communications channels. Such a misinterpretation could potentially have a very dangerous impact on public safety in a future real hurricane approach.

Recommendation: Since the meaning and purpose of executive orders and evacuation orders are quite different and the impact of such orders is very critical to the public safety and intergovernmental coordination, it is recommended that the like-sounding terms "executive order" and "evacuation order" be more clearly distinguished within State/local hurricane emergency terminology.

CHAPTER VI

PINELLAS COUNTY OPERATIONS EVALUATION AND RECOMMENDATIONS

The evaluation and recommendations set forth in this chapter reflect the findings of the Regional Exercise Critique Committee during critique sessions held on May 17 and June 2, 1982. They also reflect the results of Pinellas County internal department/municipal critique sessions held by the County Department of Civil Emergency Services. The agencies invited to serve on the Regional Critique Committee are listed in the Critique Evaluation and Recommendations section of Chapter I. The individuals that served on the Committee are listed as Appendix L.

SUMMARY OF EVACUATION ACTIVITIES AND DECISION-MAKING

Pinellas County began monitoring the simulated hurricane ("Hurricane Isabel") when the first NHC Advisory was issued on May 4 at 6:00 a.m. (see Appendix A, Advisory #1). The County's Department of Civil Emergency Services participated in the first conference call at 3:00 p.m. on May 4 (see Appendix A, Conference Call #1). The County received predicted surge heights from the first SLOSH run at 6:00 a.m. on May 5 (see Appendix A, CPA-48 SLOSH Run). At 9:00 a.m. on May 5, a meeting of the Disaster Advisory Committee was held to begin the decision-making process for a potential future evacuation. At 3:00 p.m. on May 5, the County participated in the second conference call (see Appendix A, Conference Call #2) and identified the potential for implementing evacuation level "B" if the hurricane became a threat to west central Florida. Also at 3:00 p.m., it was decided that a second Disaster Advisory Committee meeting would be held at 9:00 a.m. the following day.

At 9:00 a.m. on May 6, the County participated in the third conference call (see Appendix A, Conference Call #3), at which time evacuation level "C" was identified as potentially confronting the County based on the second SLOSH run (see Appendix A, CPA-24 SLOSH run). Also at 9:00 a.m., a meeting of the Disaster Advisory Committee was held to hear operational recommendations from Department of Civil Emergency Services officials and confirm that an evacuation order for evacuation level "C" would likely be issued at 3:10 p.m. that afternoon.

At 12:00 noon, EOC personnel began reporting to the EOC. At 1:00 p.m., the EOC became fully activated. Department of Civil Emergency Services officials conducted a short training session and EOC personnel were informed of the decisions of the Disaster Advisory Committee. A detailed review of the need, extent, and timing of an upcoming evacuation order was conducted.

At 3:10 p.m., the County issued an official evacuation order for evacuation level "C".

The County ended the EOS phase of the Exercise at 5:00 p.m. with the deactivation of the EOC. The County resumed participation in the Exercise

at 9:00 a.m. on May 10, simulating requests for state agency assistance throughout the 8-hour post-EOS re-entry phase.

EVALUATION OF EVACUATION ACTIVITIES

The evacuation decision-making process and major evacuation activities went extremely well in Pinellas County. The potential for coordination problems in a county with 24 municipalities and an extensive surge-vulnerable coastline is very high. However, all persons and agencies involved were extremely satisfied with the overall procedures and results of the Exercise. Total activation of the County EOC and 17 municipal EOCs was a major accomplishment in itself. The Exercise marked the first ever total activation of the County EOC as well as several municipal EOCs.

The process of the Disaster Advisory Committee to evaluate information from the technical vulnerability data, compare it with information provided by the National Hurricane Center, and develop an evacuation recommendation to the Board of County Commissioners was carried out exceptionally well.

Some problems were identified in the warning and alerting system as well as the direction and control element of operations:

The first problem identified in the warning and alerting system was the exceedingly large amount of time that was needed to disseminate restricted meteorological and evacuation information to key officials and agencies throughout the County. Information from NHC Conference Calls was received at the County Warning Point (EOC), then provided to key officials and agencies throughout the County for planning purposes. The dissemination of this information was accomplished using telephone by two Department of Civil Emergency Services personnel. An average time of approximately three hours was needed for the dissemination of the taped Conference Call and related hurricane information to approximately 80 persons.

The established alerting system for disseminating evacuation information to hospitals throughout the County was not adhered to in some cases. The present alerting system requires hospitals to maintain close communication with their respective municipal civil defense coordinators to insure receipt of all hurricane and evacuation information. In some cases, it was found that liaison had not been established between the hospital and municipal civil defense coordinator, which resulted in continual calls by hospitals to the County Warning Point (EOC) for information.

There were also some problems concerning the direction and control element of the operations. Most of these problems were related to EOC activities. Again, the Exercise marked the first time ever that the County EOC and several municipal EOCs were totally activated.

The first direction and control problem concerned internal EOC message flow and telephone utilization. The internal message flow problem, resulting from the pattern established in the EOC Standard Operating Procedures, was quickly corrected the afternoon of the Exercise. It was also discovered that an exclusive approval of all outgoing messages by the Operations Group Chief produced some unnecessary delays.

The EOC telephone set-up also caused some mild problems as the use of over 20 telephones producing similar ring-tones made it difficult to determine which phone was ringing in some instances.

Seventeen municipal Emergency Operations Centers in Pinellas County were established for the Exercise. Since many of these EOCs were established for the first time, it was found that message traffic between municipal EOCs was limited due to working out internal operational problems. Six municipal EOCs located on the barrier islands, or in other vulnerable areas, moved to pre-planned alternate locations in order to check alternate EOC internal procedures and re-establishment of communications. Some problems related to re-establishment of communications were encountered due to lack of antennas at alternate EOCs.

Although activated, there was no communications check made of all communications systems by the Pinellas County EOC. This resulted in some municipalities and other agencies having limited communications with the County EOC until late in the Exercise.

A complete check of traffic control points throughout the County was not included as part of the Exercise; however, this was accomplished in selected municipalities. In addition, the Law Enforcement representative in the County EOC coordinated traffic control during an actual traffic problem which developed during the Exercise. Coordination was accomplished with multiple police agencies to direct traffic flow to a new route when the Treasure Island Causeway Bridge actually remained in the "up" position.

RECOMMENDATIONS

Several more recommendations are set forth for Pinellas County than the other three counties of the region. This is largely due to the increased scale of intergovernmental coordination necessary and exercised by the County and its 24 constituent municipalities during the Exercise.

An excellent example of such a coordinative effort relates to the exceedingly large amount of time that was needed to disseminate restricted information (i.e. NHC Conference Calls) to municipal and other agency officials. The County Department of Civil Emergency Services is presently working with General Telephone Company to establish a system for "County-wide conference calls" and thus significantly reduce the time needed to disseminate such information.

Recommendation: It is recommended that the County continue its effort to establish a system of "County-wide conference calls" and ultimately make such a system operational for all future hurricane approaches.

Contrary to the established municipal-to-hospital alerting system for hurricane meteorological and evacuation information, several of the 22 hospitals throughout the County sought such information from the County EOC during the Exercise.

Recommendation: It is recommended that municipal civil defense/emergency management authorities establish and maintain a system to provide such information to the hospitals within their municipal boundaries.

Earlier sections of this Chapter describe several EOC communications-oriented problems identified as a result of the Exercise. Due to an opening in the personnel position with the County Department of Civil Emergency Services since January 1982, the County was without a Communications Coordinator for the Exercise.

Recommendation: It is recommended that Pinellas County seek to fill the position of County Emergency Communications Coordinator within the County Department of Civil Emergency Services as soon as possible.

The first-time activation of the County EOC provided the opportunity to discover an internal EOC message flow problem.

Recommendation: It is recommended that a modification of operating procedures for internal EOC message flow include giving authority to each Operations Officer (and not exclusively the Operations Group Chief) for approving most outgoing EOC messages.

The County EOC telephone set-up made individual call determination difficult because of similar ring-tones of over 20 telephones.

Recommendation: It is recommended that the central EOC telephone set-up include installation of visual lights on each phone for immediate identification of individual incoming calls.

Several municipal EOCs throughout the County were established and activated for the first time ever.

Recommendation: It is recommended that all municipalities develop written emergency procedures for the activation and operation of their EOCs and alternate EOCs (where applicable).

No communications check was made of all communications systems by the County EOC upon activation of the EOC for the Exercise.

Recommendation: It is recommended that the Pinellas County EOC Standard Operating Procedures be modified to require a complete transmission check of all communications as a part of EOC activation.

It was learned that a complete check of county-wide traffic control points, as well as individual traffic control events, requires the EOC Law Enforcement Operations Officer to coordinate simultaneously with many local police agencies.

Recommendation: It is recommended that the Law Enforcement EOC Operations Officer have a computer terminal link from the EOC to the County Sheriff's Department computer, which will provide direct access to many police agencies throughout Pinellas County.

CHAPTER VII

STATE OPERATIONS EVALUATION

The State of Florida's Bureau of Disaster Preparedness (BDP), as the State Warning Point, is a key entity in the hurricane evacuation process for any region of the state. As such, the BDP and nine other state agencies participated in the May 6 EOS. Supported by supplemental project funding from the State Department of Veteran and Community Affairs, TBRPC formulated the regional meteorological scenario to include state participation and assisted in the pre-Exercise training of state agencies.

To simulate local requests for state emergency assistance and to evaluate state response, TBRPC also planned and coordinated a Post-EOS or "reentry" phase of the Exercise held on May 10. The operations of this 8-hour phase of the Exercise were directed and primarily conducted by the BDP. State agencies participating in the Post-EOS phase of the Exercise follow:

- Office of the Governor
- Department of Agricultural and Consumer Services
- Department of Environmental Regulation
- Game and Fresh Water Fish Commission
- Department of Health and Rehabilitative Services
- Department of Highway Safety and Motor Vehicles
- Department of Military Affairs (National Guard)
- Department of Natural Resources (Marine Patrol)
- Department of Transportation

The State's role in the Exercise was twofold: (1) to support the goals and objectives of the participating counties; and (2) to test the ability of state agencies to communicate effectively and coordinate resources in an emergency involving several local jurisdictions.

The evaluation and recommendations set forth in this chapter reflect the findings of the Regional Exercise Critique Committee during critique sessions held on May 17 and June 2, 1982. They also reflect the results of internal BDP critique sessions held following the Exercise. The agencies invited to serve on the Regional Critique Committee are listed in the Critique/Evaluation and Recommendations section of Chapter I. The individuals that served on the Committee are listed as Appendix L.

SUMMARY OF EVACUATION ACTIVITIES AND DECISION-MAKING

The following summarizes the Exercise activities and evacuation decision-making based on the meteorological scenario for both the May 6 EOS and the May 10 Post-EOS Reentry phase:

May 6 EOS

On April 23, 1982 a pre-Exercise training session was held at the BDP to familiarize state agency representatives with the purposes of the Exercise and their roles in it. The agenda included a briefing on the Technical Data Report of the Tampa Bay Region Hurricane Evacuation Plan and

the Exercise scenario by TBRPC staff, and a briefing on the standard operating procedures for the State Emergency Operating Center (SEOC) by BDP staff. In addition to the state agency training session, a training workshop was held for staff of the BDPs Natural Disaster Unit to discuss use of the Technical Data Report in greater detail.

The Exercise began with the release of the first "advisory" on the hypothetical Hurricane Isabel at 6:00 a.m. on May 4. Advisory notices were kept together in a single booklet and released periodically to simulate the schedule of National Hurricane Center advisories issuance in a real hurricane.

EOS activities began the morning of May 6 when state and local officials, who had been tracking Isabel for two days, concluded that the storm was likely to pose a threat to the Florida coast. BDP staff began preparing for emergency operations early in the day, and State agency representatives were present in the SEOC from 9:00 a.m. through the end of the day.

The SEOC was activated at 1:00 p.m. The following agencies were represented:

- Governor's Office
- Department of Health and Rehabilitative Services
- Department of Transportation
- Department of Natural Resources
- Department of Agriculture and Consumer Services
- Game and Freshwater Fish Commission
- Department of Military Affairs
- American Red Cross
- Civil Air Patrol

During the course of the May 6 exercise, Governor Bob Graham was simulated to have signed an executive order supporting the Counties' decisions to issue evacuation orders in Pasco, Hillsborough, Pinellas and Manatee Counties. As Isabel approached the Tampa Bay Region, these hypothetical evacuation activities were carried out. Meanwhile, as reports were received of looting and terrorist activities; appropriate law enforcement agencies were ordered into action.

Isabel was simulated as making landfall in Pinellas County at 11:00 p.m. EDT, with heavy winds and storm surge damage. Shelters were opened, schools were closed, and the collection of tolls on evacuation routes was suspended. Numerous storm-related accidents and injuries occurred throughout those sections of the State affected by Isabel.

Exercise activities were suspended at 5:00 p.m. until Monday, May 10, when the scenario resumed for the Post-EOS Re-entry phase.

May 10 Post-EOS Re-entry Phase

The BDP resumed operations at 9:00 a.m. on May 10. The SEOC was automatically re-activated at this time. The same state agencies were represented as during the May 6 EOS, with the addition of the Department of Environmental Regulation.

Evacuation operations in most areas threatened by storm surge had been completed by this point in the Exercise. Evacuation routes and shelters were reported at or near full capacity. Meanwhile, looting was reported in evacuated areas of Hillsborough County; National Guard units were sent to support state and local law enforcement personnel.

As during the May 6 EOS, numerous storm-related problems and accidents occurred, including an oil spill (resulting from a tornado, which ruptured an oil tank) and a dam collapse. BDP's Central Florida Area Office (CEFA) office was activated to provide a regional EOC and an additional channel for requesting state assistance.

Hurricane Isabel continued its easterly course, crossing the State and exiting on the east coast in the Brevard/Volusia area. Severe weather abated on the evening of May 7 (simulation time). The SEOC was de-activated at this point (approximately 5:00 p.m., May 10, real time).

EVALUATION OF EVACUATION ACTIVITIES

Most state-level participants indicated that the Exercise was very worthwhile and provided a basis for improving state response capability.

The problems that were encountered in relation to state operations are described below and evaluations set forth for both the May 6 EOS and the May 10 Post-EOS Re-entry phase:

May 6 EOS

The scenario identification process for evacuation of the Tampa Bay Region, as outlined in the Technical Data Report formulated by TBRPC, can be followed easily after a certain amount of practice. Thus, during the May 6 portion of the exercise, State and County analyses of the hurricane evacuation situation were nearly identical. Although it did not create a problem during the Exercise, an interpretive step in the scenario identification process was found to be potentially unclear: Certain hurricane intensity categories (1, 2, 3, 4, or 5) on the worst-probable track could place a county in an evacuation scenario (A, B, C, D or E) with a slightly lower evacuation time than other tracks of the same intensity hurricane. The appropriate procedure in this case is to plan for the evacuation scenario (or level) from the worst-probable track, yet plan for the highest evacuation time of all of the same-intensity reference hurricanes (see Tampa Bay Region Hurricane Evacuation Plan Technical Data Report). Although all county civil defense/emergency management officials were aware of this procedure during the Exercise, this procedural example should be more specifically explained by future documentations of the scenario identification process.

During the Exercise, the BDP augmented the Tampa Bay evacuation information with data from inland shelter studies being conducted by the Withlacoochee, Central and East Central Florida Regional Planning Councils. This information identified potential demand for inland shelter facilities. BDP staff found that the inland shelter studies and the Tampa Bay Region evacuation information supplied by TBRPC were both useful tools for coordinating multi-jurisdictional emergency response.

Manpower was adequate for state participation in the May 6 EOS; however, 24-hour staffing capability was not tested. Agency personnel were notified well in advance and were able to make themselves available when needed.

In the area of emergency operations, facilities, and resources; working space was found to be adequate. One problem identified with internal communications was that the Bureau Chief and the Governor's Advisory Committee were not kept advised in a timely manner. To solve the problem, an external messenger delivered copies of general messages and emergency status log entries to the Bureau Chief's office.

No problems materialized in external communications. The National Warning System (NAWAS) was used for conference calls and served as the State's primary link with participating jurisdictions. Landline, RACES, and CDNARS networks served as backup communications.

The timeliness of evacuation orders was excellent. Discussion and coordination with counties resulted in appropriate executive order content. As a result, the State now has a good model executive order supporting evacuations ordered by local officials.

Organization, control, and checklisted procedures for emergency operations management were adequate, but a number of operational problems were noted. Decision-making and leadership were hampered by the need for BDP officials to respond to frequent telephone calls. Also, message flow in the SEOC was erratic because many key players lacked experience with the system.

May 10 Post-EOS Re-entry Phase

During the May 10 Re-entry phase, emergency operations facilities and resources were generally adequate to allow state officials to perform effectively. Working space was sufficient at the SEOC but not at the Area EOC at CEFA headquarters. Internal communication at the SEOC improved from May 6, but was still hampered by the large numbers of messages created both by BDP staff and State agency personnel. External communications were hampered by an inadequate link between the SEOC and the Area office; a shortage of telephone lines at CEFA resulted in the underuse of the area facility.

A further problem was noted with information display. Display boards did not contain comprehensive information; those unfamiliar with the events of the emergency could not get a clear picture of the overall situation.

State response efforts to protect the public were considered adequate, both in terms of timeliness of evacuation orders and opening of shelters.

Several problems and concerns were noted in the area of emergency operations management during the May 10 exercise. The North Florida Area Office Coordinator was brought in to assist the Operations Administrator, but this would be unrealistic in an actual emergency. Another concern was that most state agency representatives at the SEOC felt that many of the tasks they performed could have been handled as well by their counterparts at the Area office. However, this was not possible because of the scarcity of communication resources at the area facility.

Message flow was a problem because of the huge volume of messages being distributed. Each SEOC staffer received a copy of every message, whether it was directly applicable or not. It was suggested that more effective information display boards could have accomplished the same purpose with much less work.

A further problem was that the responsibilities of the Department of Environmental Regulation in regard to hazardous materials response was misunderstood by BDP staff. DER activities in this area should have been assigned by the BDP Hazardous Materials Coordinator and the Regional Response Team.

Decision-making and leadership duties in the SEOC were too concentrated; the Operations Administrator was overloaded with responsibilities. As much decision-making authority as possible should rest with the various state agency representatives.

Checklisted standard operating procedures and increased readiness procedures were found to be adequate.

Re-entry operations were without problems. One BDP staff member was assigned the duty of coordinating state damage assessment team development, travel arrangements, and managing resources needed to conduct preliminary damage assessment on a statewide scale.

RECOMMENDATIONS

Although it did not create a problem during the exercise because of adequate local understanding of the Technical Data Report, an interpretive step in the Report's scenario identification process is potentially unclear. (see preceding section of this chapter).

Recommendation: It is recommended that the "higher evacuation time vs. higher evacuation level" interpretive step be clarified in the documentation of the scenario identification process as part of a future update of the Tampa Bay Region Hurricane Evacuation Plan Technical Data Report.

An internal BDP problem during the May 6 EOS was that the Bureau Chief and the Governor's Advisory Committee were not kept advised of emergency activities in a timely manner.

Recommendation: As was implemented during the Exercise, it is recommended that SEOC operating procedures include an external messenger to deliver copies of general messages and emergency status log entries to the Bureau Chief's office.

During the May 6 EOS, decision-making and leadership in the SEOC were somewhat hampered by the need for BDP officials to respond to frequent telephone calls, often which should have been taken appropriately and directly by other state agency representatives.

Recommendation: It is recommended that a common telephone operator be included in the SEOC to route applicable calls directly to state agency representatives.

During the May 10 Re-entry phase of the Exercise, message flow in the SEOC was a problem because of the huge volume of messages being distributed. Each SEOC staff person received a copy of every message whether it was directly applicable or not.

Recommendation: It is recommended that more effective SEOC display boards be implemented for future activations to accomplish the same purpose as the high volume of sometimes inapplicable messages.

On May 10, the responsibilities of the Department of Environmental Regulation (DER) in regard to hazardous materials response was misunderstood by certain BDP staff.

Recommendation: It is recommended that DER tasks in this area be assigned by the BDP Hazardous Materials Coordinator and the Regional Response Team.

Generally, decision-making and leadership duties in the SEOC were too concentrated during the Exercise to the point of the Operations Administrator becoming overloaded with responsibilities.

Recommendation: It is recommended that as much agency-specific authority as possible be transferred to the various state agency representatives in the SEOC.

Although NHC hurricane advisories were supplied to all Exercise participants throughout the May 10 Re-entry phase as part of the meteorological scenario, NWS local action statements applicable to central and east coast counties were not included after landfall.

Recommendation: It is recommended that future such exercises include NWS local action statements for all participating counties throughout the re-entry phase.

CHAPTER VIII

EMERGENCY BROADCAST SYSTEM (EBS) EVALUATION

The effectiveness of a quantitative hurricane evacuation plan is the ability to convey information to the vulnerable residents both before a hurricane threatens (pre-season public information) and also during the actual approach of a hurricane. Pre-season public information was provided as part of the TBRPC Evacuation Plan project in the form of an 8-page map/text newspaper supplement tabloid. One of the objectives of the Exercise was to experiment with methods of conveying pre-quantified emergency information to the public during the storm's actual approach. Such information includes:

- Evacuation level confronting each county
- Resident's evacuation zone (see Glossary)
- Resident's evacuation route
- Resident's public evacuation shelter
- Actual issuance of evacuation order (see Glossary)

To test the feasibility and effectiveness of existing public communication modes to convey such detailed information upon the approach of the storm, the first comprehensive test of the Tampa Operational Area EBS was conducted as part of the May 6 Exercise.

The Emergency Broadcast System (EBS) was established in 1964 to provide the President of the United States with an expeditious method of communicating with the American public in the event of war, threat of war, or grave national crisis.

In the last several years, the original concept of the EBS has been expanded so that it can also be used during day-to-day emergencies such as hurricanes at the State and local levels to provide the means for prompt, reliable receipt and release of life- and property-saving warning as well as emergency information.

SUMMARY OF EBS COMPONENT OF THE EXERCISE

42 EBS-member radio/TV stations of the Region were requested by TBRPC and the EBS Control Station to participate in the first comprehensive test of the Tampa Operational Area EBS as part of the May 6 Exercise. Although the Federal Communications Commission requires periodic tests of EBS monitoring equipment by each member station, those exercises do not actually test whether a station has the capability to monitor, pickup, tape (if necessary), and re-broadcast an actual emergency statement to its listening audience. So, TBRPC and WSUN radio station (the Primary Common Program Control Station for the Tampa Operational Area EBS) designed a comprehensive test of the EBS for hurricane evacuation. Pre-formulated statements were utilized to correspond to the emergency operations taking place on May 6 and these messages were actually transmitted to member EBS Stations at unannounced points in time throughout the day. The member EBS stations were then responsible for monitoring the Control Station (WSUN) and carrying out their broadcast of the EBS statement to the public.

The EBS statement, pre-formulated by TBRPC and EBS Control Station WSUN, was distributed to the four County civil defense/emergency management offices before the Exercise. (The EBS statement appears as Appendix M.) At four pre-designated times, the four county civil defense/emergency management offices activated the Tampa Operational Area EBS by transmitting the official evacuation information applicable to that statement for their respective county.

The 42 EBS-member radio/TV stations of the Region were briefed as to the scope and purpose of the May 6 Exercise and EBS component through letters of March 31 and April 21, as well as a meeting of the Bay area broadcasters on April 8, 1982.

EVALUATION OF EBS FOR HURRICANE EVACUATION

The four pre-designated EBS activation times for County statements were 9:45 a.m., 11:15 a.m., 2:00 p.m. and 4:00 p.m. All activations took place utilizing the National Warning System (NAWAS) landline. The first three activation statements took place on schedule. The fourth activation call took place earlier than planned, less than ten minutes after the 2:00 p.m. statement. This very close timing of statements, although not pre-planned for evaluation purposes, identified a potential problem area of member-station functioning. The third and fourth statements were activated and consequently broadcast by the Control Station too close together to enable timely taping and re-broadcast by most participating stations.

A post-Exercise survey was conducted by TBRPC to investigate and analyze member-station participation, problems encountered, and suggestions for System improvement. The results of that survey are presented and discussed below:

The first major issue of the EBS component of the May 6 Exercise was the member-station participation itself. 42 member radio and TV stations were requested to participate in the Exercise. Of those requested to participate, only 12 stations participated in any way. This represents a very disappointing effort on the part of non-participating stations and greatly hinders the ability to conduct a detailed evaluation of EBS effectiveness for hurricane evacuation public information. A listing of participating stations follows:

- WEDU-TV
- WTIS
- WFLA
- WJYW
- WCKX
- WWQT/WHBS
- WBRD
- WDUV
- WWLF
- WWBA
- WQXM
- WTSP-TV

The remaining 30 member-stations of the Tampa Operational Area EBS that were requested to participate in the Exercise, did not indicate any participation.

Almost all participating stations felt that the EBS Exercise was very useful. Some stations indicated that the Exercise discovered malfunctioning EBS equipment for the station. One of the four non-EBS stations in the Region indicated that, because of the Exercise, it would immediately seek to subscribe to the EBS.

A few participating stations indicated that they discovered, through the Exercise, that, because of the lack of equipment or manpower, they did not have the capability to pick-up, tape, and re-broadcast actual EBS statements.

It was also discovered that many stations were not prepared to monitor the Common Program Control Station-1 which is WSUN. These stations indicated that they instead monitored WFLA, the former Control Station, which is now the Secondary Control Station. This does not conform to official EBS procedures since the Secondary Control Station (WFLA) will only activate the system if the activating agent (a county) cannot contact the primary Control Station (WSUN).

One participating station had trouble distinguishing between the evacuation level names "B", "C", "D" and "E" when the letters were orally transmitted in the EBS statement.

Finally, Control Station personnel and also some counties indicated the need for a less-vulnerable communications mode than NAWAS landline for the activation link between the county civil defense/emergency management offices and the Control Station. Recent efforts have been made to install secure two-way radio equipment for the EBS activation link for some counties.

RECOMMENDATIONS

A disappointing 28 percent of the Tampa Operational Area EBS member-stations that were requested to participate in the May 6 Exercise actually participated in some form.

Recommendation: It is recommended that the Federal Communications Commission adopt a requirement for EBS member-stations to participate in future comprehensive and potentially life-saving exercises of EBS effectiveness such as the May 6, 1982 Tampa Bay Region Hurricane Evacuation Exercise.

Recommendation: Since a comprehensive evaluation of the effectiveness of the Tampa Operational Area EBS as a public warning mechanism cannot be carried out without total member-station participation, it is recommended that all EBS member radio/TV stations participate in any future regional hurricane evacuation exercise.

Several participating stations could not tape the last EBS activation statement on May 6 because it too closely followed the third statement.

Recommendation: It is recommended that counties as well as the Common Program Control Station use caution in assuring that EBS activation statements are not initiated close enough together to prevent taping and/or re-broadcasting by member-stations.

It was discovered that, although EBS member-stations have the capability to monitor and pick-up the EBS activation attention signal from the Control Station, some member-stations do not have in-place equipment (or manpower) to assure the taping and/or rebroadcasting of actual EBS statements to the listening public.

Recommendation: It is recommended that all EBS member-stations of the Tampa Operational Area develop the necessary resources to accurately implement their EBS function to their listening audience (beyond the capability to simply monitor Control Station attention signals).

It was also discovered that many Tampa Operational Area EBS member-stations do not monitor the official common Program Control Station (WSUN), some because they were unaware that WSUN, and not WFLA, was the Control Station.

Recommendation: It is recommended that the Tampa Operational Area Emergency Communications Committee officially notify all EBS member-stations that WSUN is indeed the Area's Primary Common Program Control Station to assure a comprehensive distribution of future EBS statements.

Recommendation: It is also recommended that all EBS member-stations monitor the official Primary Common Program Control Station.

Exercise EBS statements included lettered names ("A", "B", "C", "D", and "E") for applicable hurricane evacuation levels that could be misinterpreted when transmitted orally.

Recommendation: It is recommended that future EBS statements conveying lettered hurricane evacuation levels use the standard phonetic alphabet letters and words to identify the levels such as "B as in Bravo" or "D as in Delta", etc.

A need has been identified for a less-vulnerable communications mode than NAWAS landline for the emergency EBS activation link. Recent efforts have been made by some counties to install secure two-way radio equipment for the EBS activation link.

Recommendation: It is recommended that all four counties of the Tampa Bay Region develop a secure two-way radio emergency EBS activation link to the Primary Common Program Control Station.

CHAPTER IX

VIDEO GRAPHIC PUBLIC INFORMATION

As stated in the preceding chapter, the effectiveness of a quantitative hurricane evacuation plan includes the ability to convey information to the vulnerable residents both before a hurricane threatens (pre-season public information) and also during the actual approach of a hurricane. Pre-season public information was provided as part of the TBRPC Evacuation Plan project in the form of a 8-page map/text newspaper supplement tabloid. One of the objectives of the Exercise was to experiment with methods of conveying pre-quantified emergency information to the public during the storm's actual approach. Such information includes:

- Evacuation level confronting each county
- Resident's evacuation zone (see Glossary)
- Resident's evacuation route
- Resident's public evacuation shelter
- Actual issuance of evacuation order (see Glossary)

The preceding chapter described the EBS component of the Exercise, which tested the capability of disseminating such evacuation information to the public by EBS radio/TV statements. Although the testing of this capability was hindered by poor member-station participation, it is quite evident that the EBS is the most effective immediate method of comprehensively reaching the public with emergency information. However, since 85 percent of EBS member-stations are radio stations, EBS statements must naturally be limited to audio transmissions. Thus, of the five major pieces of hurricane evacuation information listed above, only the evacuation level and the actual issuance of an evacuation order can be disseminated via EBS. The other three pieces of information (the resident's evacuation zone, assigned evacuation route, and assigned public shelter) are quite detailed and require video graphic capability to convey that information by color-coded and numbered county maps. An objective of the Exercise was to test the capability and feasibility of conveying such information, as the hurricane is approaching, utilizing television.

SUMMARY OF VIDEO GRAPHIC TEST

To test whether such detailed evacuation information could be simply and graphically displayed via television during the approach of a hurricane, TBRPC worked with the Public Broadcast Station WEDU-TV Channel 3 to develop a video tape showing and describing such information. The script of the 20-minute tape appears as Appendix N. As a public service, WEDU-TV participated in the Exercise by broadcasting the tape throughout the day of May 6 when triggered by an EBS statement for each of the four counties. The EBS statement instructed residents to tune to Channel 3 WEDU-TV for their detailed evacuation instructions; the video tape of those zone, route, and shelter instructions was simultaneously being broadcast along with each EBS statement. The video portions of the tape were composed of the four Regional Hurricane Evacuation Plan public information newspaper tabloid maps (one map for each county) being slowly panned by the television camera at close range. This would enable the viewer to identify

his/her zone, route, and shelter without the aid of the pre-season newspaper tabloid.

EVALUATION OF VIDEO GRAPHIC TEST

As a preface to this evaluation, the Regional Exercise Critique Committee as well as TBRPC express their appreciation to WEDU-TV Channel 3 for voluntarily participating in the Exercise by producing the video tape and broadcasting the tape as a public service to the Tampa Bay Region.

The video tape was basically composed of a television camera panning four detailed county evacuation maps originally developed for the regional newspaper public information tabloid. For this reason, very detailed route and shelter information was sometimes difficult to discern, especially in the urban portions of the Counties. However, maps developed expressly for video tape purposes would have easily mitigated this problem.

The overall clarity and color of the video tape was very good. For Exercise purposes, the resident's vulnerability to the applicable evacuation level (A, B, C, D, or E) was to be discerned by that resident using the county map on his/her television screen. Each map included a color-coding of all five levels. A more simplified and clear picture of the applicable evacuation level could be discerned by producing five individual tapes for each County, corresponding to the five evacuation levels of the evacuation plan.

RECOMMENDATION

The results of the video graphic test conducted by TBRPC and WEDU-TV Channel 3 overwhelmingly support the feasibility and necessity of conveying detailed evacuation instructions to the public during the approach of a hurricane via the television media.

Recommendation: It is recommended that a pre-taped video system, for use by all television stations in the Tampa Bay Region, be developed to disseminate detailed evacuation instructions such as zones, routes, and shelters to the public during the approach of a hurricane.

CHAPTER X

INTERGOVERNMENTAL OPERATIONS EVALUATION AND RECOMMENDATIONS

The evaluation and recommendations set forth in this chapter reflect the findings of the Regional Exercise Critique Committee during critique sessions held on May 17 and June 2, 1982. They also reflect the results of TBRPC's internal staff critique sessions held subsequent to the Exercise. The agencies invited to serve on the Regional Critique Committee are listed in the Critique/Evaluation and Recommendations section of Chapter I. The individuals that served on the Committee are listed as Appendix L.

SUMMARY OF INTERGOVERNMENTAL ACTIONS IN HURRICANE EVACUATION

One of the major objectives of the Exercise was to monitor and evaluate all critical communications and coordination that must take place between several levels of government and other entities in order for a safe and effective hurricane evacuation to be carried out. The nine key entities that participated in the Exercise and whose communications and coordinative activities were monitored by TBRPC are listed below:

- Hillsborough County Office of Fire and Disaster Operations
- Manatee County Civil Defense Department
- Pasco County Disaster Preparedness Department
- Pinellas County Department of Civil Emergency Services
- Florida Bureau of Disaster Preparedness
- National Weather Service - Ruskin (NWS)
- National Hurricane Center (NHC)
- Emergency Broadcast System (Common Program Control Station)
- Public Broadcast Station (WEDU-TV Channel 3)

TBRPC has no actual operational role in hurricane evacuation. In addition to designing and formulating the EOS, TBRPC established a Regional Exercise Control Point (see Glossary). This location was where all Exercise activities were coordinated, all intergovernmental communications were monitored and taped, and where an information center for the press was provided. TBRPC utilized the facilities of the Pinellas County Civil Emergency Services Department at the St. Petersburg/Clearwater International Airport for the Regional Exercise Control Point.

In order to conduct an intergovernmental communications and coordination evaluation, TBRPC monitored and taped all county-to-county, county-to-State, county-to-NHC, etc. communications transmissions. This monitoring process is graphically illustrated as Appendix J. Based on the tapes of all intergovernmental transmissions and conversations, a summary of those communications appears as Appendix K.

Finally, a TBRPC representative from each County was appointed to serve as the official TBRPC Observer of the Exercise activities taking place in that County. Appointed observers were Commissioner Jan Platt for Hillsborough

County (and TBRPC Chairman), Commissioner Westwood Fletcher for Manatee County, New Port Richey Mayor George Henry for Pasco County, and Commissioner Gabe Cazares for Pinellas County.

EVALUATION OF INTERGOVERNMENTAL EVACUATION ACTIVITIES

Any exercise evaluation must first determine whether the prescribed objectives of the participating entities were fulfilled. As stated earlier, the nine key participating entities all set forth their own set of objectives during the pre-planning of the Exercise. Chapter II presented the major common objectives of the Exercise. It was the finding of the Regional Exercise Critique Committee that all local, regional, and state objectives were met by the Exercise. The Committee also concluded that the Exercise significantly improved the hurricane preparedness of the local governments of the Region.

A key characteristic of the Regional Hurricane Evacuation Plan Technical Data Report, upon which the evacuation decision-making in the Exercise was based, is the identification of inter-county evacuation impacts on evacuation times and other emergency decisions. After utilizing the Technical Data Report scenario identification process in the Exercise, the participating local governments determined it to be a sound and viable method for identifying the level of evacuation from the approaching hurricane to be implemented.

As part of the Exercise scenario, three valuable "conference calls" were simulated between the four counties, NHC, and the State of Florida using the National Warning System (NAWAS) communications system to transmit restricted emergency evacuation information. NAWAS is an emergency communications system that was originally developed for use in nuclear/wartime emergencies. These conference calls over NAWAS were very useful for discussing and confirming expected reference hurricanes and evacuation levels between the four Counties and the State Bureau of Disaster Preparedness.

A potential future coordination problem between county and state civil defense agencies, because of existing emergency terminology, was uncovered by the Exercise. Any type of major emergency action taken by a local government is usually initiated through the issuance of an executive order. The ordering of evacuation ("evacuation order") is one such emergency action that is initiated by an executive order. Under Florida Statute 252, the senior elected official of the State as well as senior elected officials of local governments are authorized to issue evacuation orders. At 2:00 p.m. during the Exercise, the State simulated the issuance of a Governor's executive order rendering all available State agency assistance required to support any county evacuation orders that had been issued, specifically an evacuation order that was issued by Hillsborough County at 1:00 p.m. Because of the likeness in sound of the two terms over the oral communications channels, the 2:00 p.m. State executive order was misinterpreted by some counties as being an evacuation order from the Governor to all the counties of the Tampa Bay Region. Based on this misinterpretation, Manatee and Pasco Counties immediately issued official evacuation orders to conform to what they thought was a Governor's evacuation order. This forced these counties to issue evacuation orders earlier than they really intended to and earlier than was supported by the Regional Evacuation Plan Technical Data Report.

Under National Hurricane Center warning procedures, from the time that gale or hurricane "Watches" or "Warnings" are issued for a segment of coastline, regular weather teletype advisories are read orally over that state's NAWAS circuit until the threat is ended. Under most county operating procedures, all information transmitted over NAWAS is automatically forwarded to their constituent municipalities. The formulation of the regional meteorological scenario for the Exercise did not provide for any advisories to be read over NAWAS. This contributed to a lack of meteorological information reaching some municipalities during the Exercise. However, most emergency message flow problems occurring at the county EOC were attributable to the compressed time schedule followed from 3:00 p.m. to 5:00 p.m. on May 6. Such a schedule was agreed as being necessary by the four counties at Exercise pre-planning sessions.

Although the Committee found that the National Warning System (NAWAS) communications mode was very effective during the Exercise for county-to-county communications and recommends its continued use for hurricane evacuation, the NAWAS is a hardline/landline form of communication, still somewhat vulnerable to early hurricane hazards.

A post-Exercise follow-up survey indicated that only 11 of 42 radio/TV stations that are members of the Tampa Operational Area Emergency Broadcast System (EBS), that were requested to participate, actually participated in the EBS component of the Exercise. All 42 stations were requested by TBRPC and the EBS Control Station to participate in the EBS component of the Exercise well before May 6.

The Committee unanimously agreed that the television graphics test of evacuation level/zone/route/shelter information (utilizing PBS station WEDU-TV Channel 3) pointed out the necessity of television as a mode for disseminating such emergency detailed instructions to the public. The clarity and effectiveness of the WEDU-TV video segments also points toward the feasibility of such a pre-taped system for the affiliates of all other television networks in the Region.

RECOMMENDATIONS

There was a unanimous consensus by the committee that all local, regional, and state objectives were met by the Exercise and that the Exercise significantly improved the hurricane preparedness of the local governments of the Region.

Recommendation: It is recommended that another exercise of this type be conducted to coincide with a future update of the Regional Hurricane Evacuation Plan Technical Data Report.

The data base for decision-making provided by the Regional Hurricane Evacuation Plan Technical Data Report was determined by all participating counties and municipalities to be sound, especially for evacuation scenario identification. The scenario identification process of the Plan requires real time input data from the Tampa Bay SLOSH numerical storm surge model, which is run on the National Hurricane Center computer during the approach of the storm.

Recommendation: It is recommended that the capability be developed to instantaneously transmit SLOSH model data from the NHC to each county civil defense office during the approach of the hurricane. On an interim basis, key SLOSH grid point surge height predictions should be transmitted via existing National Weather Teletype. Ultimately, the capability for county civil defense offices to receive instantaneous computer printout hard copy, as SLOSH is run by the NHC, should be developed.

As part of the Exercise scenario, three valuable "conference calls" were simulated between the four counties, NHC, and the State of Florida using the National Warning System (NAWAS) communications system to transmit restricted emergency evacuation information. NAWAS is an emergency communications system that was originally developed for use in nuclear/wartime emergencies.

Recommendation: It is recommended that the NAWAS be continued to be used to transit and discuss key restricted emergency hurricane evacuation information between counties, the State of Florida, NHC and NWS.

Any type of major emergency action taken by a local government is usually initiated through the issuance of an executive order. The ordering of evacuation ("evacuation order") is one such emergency action that is initiated by an executive order. Under Florida Statute 252, the senior elected official of the State as well as senior elected officials of local governments are authorized to issue evacuation orders. At 2:00 p.m. during the Exercise, the State simulated the issuance of a Governor's executive order rendering all available State agency assistance required to support any county evacuation orders that had been issued, specifically an evacuation order that was issued by Hillsborough County at 1:00 p.m. Because of the likeness in sound of the two terms over the oral communications channels, the 2:00 p.m. State executive order was misinterpreted by some counties as being an evacuation order from the Governor to all the counties of the Tampa Bay Region. Based on this misinterpretation, Manatee and Pasco Counties immediately issued official evacuation orders to conform to what they thought was a Governor's evacuation order. This forced these counties to issue evacuation orders earlier than they really intended to and earlier than was supported by the Regional Evacuation Plan Technical Data Report.

Recommendation: Since the meaning and purpose of executive orders and evacuation orders are quite different and the impact of such orders is very critical to the public safety and intergovernmental coordination, it is recommended that the like-sounding terms "executive order" and "evacuation order" be more clearly distinguished within State/local hurricane emergency terminology.

Under most county operating procedures, all information transmitted over NAWAS is automatically forwarded to their constituent municipalities. The formulation of the regional meteorological scenario for the Exercise did not provide for any advisories to be read over NAWAS. This contributed to a lack of meteorological information reaching some municipalities during the Exercise.

Recommendation: It is recommended that any future such exercises include a provision for the simulation of advisories being read orally over NAWAS to conform to National Hurricane Center warning procedures.

Most emergency message flow problems occurring at the County EOC were attributable to the compressed time schedule followed from 3:00 p.m. to 5:00 p.m. on May 6. Such a schedule was agreed as being necessary by the four counties at Exercise pre-planning sessions.

Recommendation: It is recommended that in future such exercises, alternatives to compressed time schedules be explored. If possible, all critical portions of the meteorological scenario should be simulated utilizing a real time schedule.

Although the Committee found that the National Warning System (NAWAS) communications mode was very effective during the Exercise and recommends its continued use for hurricane evacuation, the NAWAS is a hard-line/landline form of communication, still somewhat vulnerable to early hurricane hazards.

Recommendation: It is recommended that regional radio frequency for county-to-county and conference transmissions between the Region's four counties be established, made operational, and periodically tested for critical hurricane evacuation coordination.

A post-Exercise survey indicated that only 12 of the 42 EBS member-stations that were requested to participate in the EBS component of the exercise actually participated.

Recommendation: Since a true evaluation of the effectiveness of the Tampa Area EBS as a public warning mechanism cannot be carried out without total member-station participation, it is recommended that all EBS member radio/TV stations participate in any future regional hurricane evacuation exercise.

The Committee unanimously agreed that the television graphics test of evacuation level/zone/route/shelter information (utilizing PBS station WEDU-TV Channel 3) pointed out the necessity of television as a mode for disseminating such emergency detailed instructions to the public. The clarity and effectiveness of the WEDU-TV video segments also points toward the feasibility of such a pre-taped system for the affiliates of all other television networks in the Region.

Recommendation: It is recommended that a pre-taped video system, for use by all television network affiliates, be developed to disseminate detailed evacuation instructions to the public during the approach of a hurricane.

CHAPTER XI

SUMMARY OF EXERCISE ISSUES AND RECOMMENDATIONS

A summary of the issues and corresponding recommendations from previous chapters for all major levels of Exercise participation is presented in this chapter. A more detailed discussion of each issue can be found in the previous chapter applicable to that level of participation.

HILLSBOROUGH COUNTY OPERATIONS

Issue: Premature Evacuation Ordering

The problems with the timing of official orders/actions can be traced to a need for closer communication and coordination between the County civil defense/emergency management officials and the EOC Executive Policy Group. However, any lack of such communication or coordination during the Exercise was caused by the fact that a key civil defense officer for this coordination was acting as controller for the Exercise, removing him from any operational role during the Exercise.

Recommendation: It is recommended that in future such exercises, key officials critical to the coordination between civil defense personnel and the EOC Executive Policy Group not also serve as Exercise controllers. In future such exercises, the controller should ideally be assigned to an individual outside the County Office of Fire and Emergency Operations.

Issue: EOC Message Flow

Most emergency message flow problems occurring at the County EOC were attributable to the compressed time schedule followed from 3:00 p.m. to 5:00 p.m. on May 6. Such a schedule was agreed as being necessary by the four counties at Exercise pre-planning sessions.

Recommendation: It is recommended that, in future such exercises, alternatives to compressed time schedules be explored. If possible, all critical portions of the meteorological scenario should be simulated utilizing a real time schedule.

MANATEE COUNTY OPERATIONS

Issue: EOC Message Flow

Most emergency message flow problems occurring at the County EOC were attributable to the compressed time schedule followed from 3:00 p.m. to 5:00 p.m. on May 6. Such schedule was agreed as being necessary by the four counties at Exercise pre-planning sessions.

Recommendation: It is recommended that, in future such exercises, alternatives to compressed time schedules be explored. If possible, all critical portions of the meteorological scenario should be simulated utilizing a real time schedule.

Issue: Clarification of Emergency Hurricane Terminology

The misinterpretation of the Governor's executive order as being an evacuation order was mainly attributable to how closely the terms sound when they are transmitted orally over emergency communications channels. Such a misinterpretation could potentially have a very dangerous impact on public safety in a future real hurricane approach.

Recommendation: Since the meaning and purpose of executive orders and evacuation orders are quite different and the impact of such orders is very critical to the public safety and intergovernmental coordination, it is recommended that the like-sounding terms "executive order" and "evacuation order" be more clearly distinguished within State/local hurricane emergency terminology.

PASCO COUNTY OPERATIONS

Issue: County EOC Vulnerability

The Emergency Operating Center (EOC), or point from which local government officials direct and control preparedness/response activities during a large-scale emergency, should be a site protected from the hazards of that emergency. The current EOC utilized by the County in the Exercise would be very vulnerable to overland hurricane storm surge due to its elevation and proximity to the Gulf of Mexico.

Recommendation: It is recommended that an alternative site be utilized by the County for its Emergency Operating Center (EOC). The site should be located at a floor level elevation above 20 feet MSL and at an inland location which would be free from overland surge-induced isolation in the event of a major hurricane.

Issue: Lack of Direct Access to NWS Teletype

The timing of hurricane evacuation orders (i.e. the incremental evacuation level "A" order) and other related emergency actions require several currently available predictive tools to assist the civil defense official. These include the National Warning System-NAWAS (for receiving restricted meteorological and evacuation information), the National Weather Service Teletype (for receiving continuous time-defined advisories and local action statements), and a quantitative evacuation plan. The County EOC currently does not have direct access to the National Weather Service Teletype.

Recommendation: It is recommended that the County acquire direct EOC access to the National Weather Service Teletype.

Issue: Clarification of Emergency Hurricane Terminology

The misinterpretation of the Governor's executive order as being an evacuation order was mainly attributable to how closely the terms sound when they are transmitted orally over emergency communications channels. Such a misinterpretation could potentially have a very dangerous impact on public safety in a future real hurricane approach.

Recommendation: Since the meaning and purpose of executive orders and evacuation orders are quite different and the impact of such orders is very critical to the public safety and intergovernmental coordination, it is recommended that the like-sounding terms "executive order" and "evacuation order" be more clearly distinguished within State/local hurricane emergency terminology.

PINELLAS COUNTY OPERATIONS

Several more recommendations are set forth for Pinellas County than the other three counties of the region. This is largely due to the increased scale of intergovernmental coordination necessary and exercised by the County and its 24 constituent municipalities during the Exercise.

Issue: Dissemination time for Restricted Information

An excellent example of such coordinative effort relates to the exceedingly large amount of time that was needed to disseminate restricted information (i.e. NHC Conference Calls) to municipal and other agency officials. The County Department of Civil Emergency Services is presently working with General Telephone Company to establish a system for "County-wide conference calls" and thus significantly reduce the time needed to disseminate such information.

Recommendation: It is recommended that the County continue its effort to establish a system of "County-wide conference calls" and ultimately make such a system operational for all future hurricane approaches.

Issue: Dissemination of Emergency Information to Hospitals

Contrary to the established municipal-to-hospital alerting system for hurricane meteorological and evacuation information, several of the 22 hospitals throughout the County sought such information from the County EOC during the Exercise.

Recommendation: It is recommended that municipal civil defense/emergency management authorities establish and maintain a system to provide such information to the hospitals within their municipal boundaries.

Issue: EOC Communications

Earlier sections of this Chapter describe several EOC communications-oriented problems identified as a result of the Exercise. Due to an opening in the personnel position with the County Department of Civil Emergency Services since January 1982, the County was without a Communications Coordinator for the Exercise.

Recommendation: It is recommended that Pinellas County seek to fill the position of County Emergency Communications Coordinator within the County Department of Civil Emergency Services as soon as possible.

Issue: EOC Message Flow

The first-time activation of the County EOC provided the opportunity to discover an internal EOC message flow problem.

Recommendation: It is recommended that a modification of operating procedures for internal EOC message flow include giving authority to each Operations Officer (and not exclusively the Operations Group Chief) for approving most outgoing EOC messages.

Issue: EOC Telephone Set-up

The County EOC telephone set-up made individual call determination difficult because of similar ring-tones of over 20 telephones.

Recommendation: It is recommended that the central EOC telephone set-up include installation of visual lights on each phone for immediate identification of individual incoming calls.

Issue: Written Procedures for Municipal EOCs

Several municipal EOCs throughout the County were established and activated for the first time ever.

Recommendation: It is recommended that all municipalities develop written emergency procedures for the activation and operation of their EOCs and alternate EOCs (where applicable).

Issue: Countywide Communications Check

No communications check was made of all communications systems by the County EOC upon activation of the EOC for the Exercise.

Recommendation: It is recommended that the Pinellas County EOC Standard Operating Procedures be modified to require a complete transmission check of all communications as a part of EOC activation.

Issue: Traffic Control Coordination by Law Enforcement Agencies

It was learned that a complete check of county-wide traffic control points, as well as individual traffic control events, requires the EOC Law Enforcement Operations Officer to coordinate simultaneously with many local police agencies.

Recommendation: It is recommended that the Law Enforcement EOC Operations Officer have a computer terminal link from the EOC to the County Sheriff's Department computer, which will provide direct access to many police agencies throughout Pinellas County.

STATE OPERATIONS

Issue: Scenario Identification Process Clarification

Although it did not create a problem during the exercise because of adequate local understanding of the Technical Data Report, an interpretive step in the report's scenario identification process is potentially unclear. (see preceding section of this chapter).

Recommendation: It is recommended that the "higher evacuation time vs. higher evacuation level" interpretive step be clarified in the documentation of the scenario identification process as part of a future update of the Tampa Bay Region Hurricane Evacuation Plan Technical Data Report.

Issue: Internal BDP Information Flow

An internal BDP problem during the May 6 EOS was that the Bureau Chief and the Governor's Advisory Committee were not kept advised of emergency activities in a timely manner.

Recommendation: As was implemented during the Exercise, it is recommended that SEOC operating procedures include an external messenger to deliver copies of general messages and emergency status log entries to the Bureau Chief's office.

Issue: SEOC Telephone Message Distribution

During the May 6 EOS, decision-making and leadership in the SEOC were somewhat hampered by the need for BDP officials to respond to frequent telephone calls, often which should have been taken appropriately and directly by other state agency representatives.

Recommendation: It is recommended that a common telephone operator be included in the SEOC to route applicable calls directly to state agency representatives.

Issue: SEOC Internal Message Flow

During the May 10 Re-entry phase of the Exercise, message flow in the SEOC was a problem because of the huge volume of messages being distributed. Each SEOC staff person received a copy of every message whether it was directly applicable or not.

Recommendation: It is recommended that more effective SEOC display boards be implemented for future activations to accomplish the same purpose as the high volume of sometimes inapplicable messages.

Issue: BDP/DER Coordination

On May 10, the responsibilities of the Department of Environmental Regulation (DER) in regard to hazardous materials response was misunderstood by certain BDP staff.

Recommendation: It is recommended that DER tasks in this area be assigned by the BDP Hazardous Materials Coordinator and the Regional Response Team.

Issue: SEOC Distribution of Responsibilities

Generally, decision-making and leadership duties in the SEOC were too concentrated during the Exercise to the point of the Operations Administrator becoming overloaded with responsibilities.

Recommendation: It is recommended that as much agency-specific authority as possible be transferred to the various state agency representatives in the SEOC.

Issue: Local Action Statements for Re-entry Phase

Although NHC hurricane advisories were supplied to all Exercise participants throughout the May 10 Re-entry phase as part of the meteorological scenario, NWS local action statements applicable to central and east coast counties were not included after landfall.

Recommendation: It is recommended that future such exercises include NWS local action statements for all participating counties throughout the re-entry phase.

EMERGENCY BROADCAST SYSTEM (EBS)

Issue: EBS Member-Station Participation

A disappointing 28 percent of the Tampa Operational Area EBS member-stations that were requested to participate in the May 6 Exercise actually participated in some form.

Recommendation: It is recommended that the Federal Communications Commission adopt a requirement for EBS member-stations to participate in future comprehensive and potentially life-saving exercises of EBS effectiveness such as the May 6, 1982 Tampa Bay Regional Hurricane Evacuation Exercise.

Recommendation: Since a comprehensive evaluation of the effectiveness of the Tampa Operational Area EBS as a public warning mechanism cannot be carried out without total member-station participation, it is recommended that all EBS member radio/TV stations participate in any future regional hurricane evacuation exercise.

Issue: EBS Statement Broadcast Timing

Several participating stations could not tape the last EBS activation statement on May 6 because it too closely followed the third statement.

Recommendation: It is recommended that counties as well as the common Program Control Station use caution in assuring that EBS activation statements are not initiated close enough together to prevent taping and/or re-broadcasting by member-stations.

Issue: EBS Member-Station Capabilities

It was discovered that, although EBS member-stations have the capability to monitor and pick-up the EBS activation attention signal from the Control Station, some member-stations do not have in-place equipment (or manpower) to assure the taping and/or re-broadcasting of actual EBS statements to the listening public.

Recommendation: It is recommended that all EBS member-stations of the Tampa Operational Area develop the necessary resources to accurately imple-

ment their EBS function to their listening audience (beyond the capability to simply monitor Control Station attention signals).

Issue: Common Program Control Station Monitoring

It was also discovered that many Tampa Operational Area EBS member-stations do not monitor the official common Program Control Station (WSUN), some because they were unaware that WSUN, and not WFLA, was the Control Station.

Recommendation: It is recommended that the Tampa Operational Area Emergency Communications Committee officially notify all EBS member-stations that WSUN is indeed the Area's Primary Common Program Control Station to assure a comprehensive distribution of future EBS statements.

Recommendation: It is also recommended that all EBS member-stations monitor the official Primary Common Program Control Station.

Issue: Evacuation Level Letter Clarification

Exercise EBS statements included lettered names ("A", "B", "C", "D", and "E") for applicable hurricane evacuation levels that could be misinterpreted when transmitted orally.

Recommendation: It is recommended that future EBS statements conveying lettered hurricane evacuation levels use the standard phonetic alphabet letters and words to identify the levels such as "B as in Bravo" or "D as in Delta", etc.

Issue: Vulnerability of EBS Activation Communication Link

A need has been identified for a less-vulnerable communications mode than NAWAS landline for the emergency EBS activation link. Recent efforts have been made by some counties to install secure two-way radio equipment for the EBS activation link.

Recommendation: It is recommended that all four counties of the Tampa Bay Region develop a secure two-way radio emergency EBS activation link to the Primary Common Program Control Station.

VIDEO GRAPHIC PUBLIC INFORMATION

Issue: Necessity and Feasibility of Emergency Evacuation Information Via Television

The results of the video graphic test conducted by TBRPC and WEDU-TV Channel 3 overwhelmingly support the feasibility and necessity of conveying detailed evacuation instructions to the public during the approach of a hurricane via the television media.

Recommendation: It is recommended that a pre-taped video system, for use by all television stations in the Tampa Bay Region, be developed to disseminate detailed evacuation instructions such as zones, routes, and shelters to the public during the approach of a hurricane.

INTERGOVERNMENTAL OPERATIONS

Issue: Value of the Regional Exercise

There was a unanimous consensus by the committee that all local, regional, and state objectives were met by the Exercise and that the Exercise significantly improved the hurricane preparedness of the local governments of the Region.

Recommendation: It is recommended that another exercise of this type be conducted to coincide with a future update of the Regional Hurricane Evacuation Plan Technical Data Report.

Issue: Viability of the Regional Hurricane Evacuation Plan Technical Data Report

The data base for decision-making provided by the Regional Hurricane Evacuation Plan Technical Data Report was determined by all participating counties and municipalities to be sound, especially for evacuation scenario identification. The scenario identification process of the Plan requires real time input data from the Tampa Bay SLOSH numerical storm surge model, which is run on the National Hurricane Center computer during the approach of the storm.

Recommendation: It is recommended that the capability be developed to instantaneously transmit SLOSH model data from the NHC to each county civil defense office during the approach of the hurricane. On an interim basis, key SLOSH grid point surge height predictions should be transmitted via existing National Weather Teletype. Ultimately, the capability for county civil defense offices to receive instantaneous computer printout hard copy, as SLOSH is run by the NHC, should be developed.

Issue: Utilization of the National Warning System (NAWAS)

As part of the Exercise scenario, three valuable "conference calls" were simulated between the four counties, NHC, and the State of Florida using the National Warning System (NAWAS) communications system to transmit restricted emergency evacuation information. NAWAS is an emergency communications system that was originally developed for use in nuclear/wartime emergencies.

Recommendation: It is recommended that the NAWAS be continued to be used to transmit and discuss key restricted emergency hurricane evacuation information between counties, the State of Florida, NHC and NWS.

Issue: Clarification of Emergency Hurricane Terminology

Any type of major emergency action taken by a local government is usually initiated through the issuance of an executive order. The ordering of evacuation ("evacuation order") is one such emergency action that is initiated by an executive order. Under Florida Statute 252, the senior elected official of the State as well as senior elected officials of local governments are authorized to issue evacuation orders. At 2:00 p.m. during the Exercise, the State simulated the issuance of a Governor's executive order rendering all available State agency assistance required to support

any county evacuation orders that had been issued, specifically an evacuation order that was issued by Hillsborough County at 1:00 p.m. Because of the likeness in sound of the two terms over the oral communications channels, the 2:00 p.m. State executive order was misinterpreted by some counties as being an evacuation order from the Governor to all the counties of the Tampa Bay Region. Based on this misinterpretation, Manatee and Pasco Counties immediately issued official evacuation orders to conform to what they thought was a Governor's evacuation order. This forced these counties to issue evacuation orders earlier than they really intended to and earlier than was supported by the Regional Evacuation Plan Technical Data Report.

Recommendation: Since the meaning and purpose of executive orders and evacuation orders are quite different and the impact of such orders is very critical to the public safety and intergovernmental coordination, it is recommended that the like-sounding terms "executive order" and "evacuation order" be more clearly distinguished within State/local hurricane emergency terminology.

Issue: NHC/NWS Advisories and Local Statements Read Over NAWAS

Under most county operating procedures, all information transmitted over NAWAS is automatically forwarded to their constituent municipalities. The formation of the regional meteorological scenario for the Exercise did not provide for any advisories to be read over NAWAS. This contributed to a lack of meteorological information reaching some municipalities during the Exercise.

Recommendation: It is recommended that any future such exercises include a provision for the simulation of advisories being read orally over NAWAS to conform to National Hurricane Center Warning procedures.

Issue: Exercise Compressed Time Schedule

Most emergency message flow problems occurring at the County EOC were attributable to the compressed time schedule followed from 3:00 p.m. to 5:00 p.m. on May 6. Such a schedule was agreed as being necessary by the four counties at Exercise pre-planning sessions.

Recommendation: It is recommended that in future such exercises, alternatives to compressed time schedules be explored. If possible, all critical portions of the meteorological scenario should be simulated utilizing a real time schedule.

Issue: Establish Regional Radio Frequency

Although the Committee found that the National Warning System (NAWAS) communications mode was very effective for county-to-county communications during the Exercise and recommends its continued use for hurricane evacuation, the NAWAS is a hardline/landline form of communication, still somewhat vulnerable to early hurricane hazards.

Recommendation: It is recommended that a regional radio frequency for county-to-county and conference transmissions between the Region's four

counties be established, made operational, and periodically tested for critical hurricane evacuation coordination.

Issue: EBS Radio/TV Station Participation

A post-Exercise survey indicated that only 12 of the 42 EBS member-stations that were requested to participate in the EBS component of the exercise actually participated.

Recommendation: Since a true evaluation of the effectiveness of the Tampa Area EBS as a public warning mechanism cannot be carried out without total member-station participation, it is recommended that all EBS member radio/TV stations participate in any future regional hurricane evacuation exercise.

Issue: Video Graphic Public Informtion

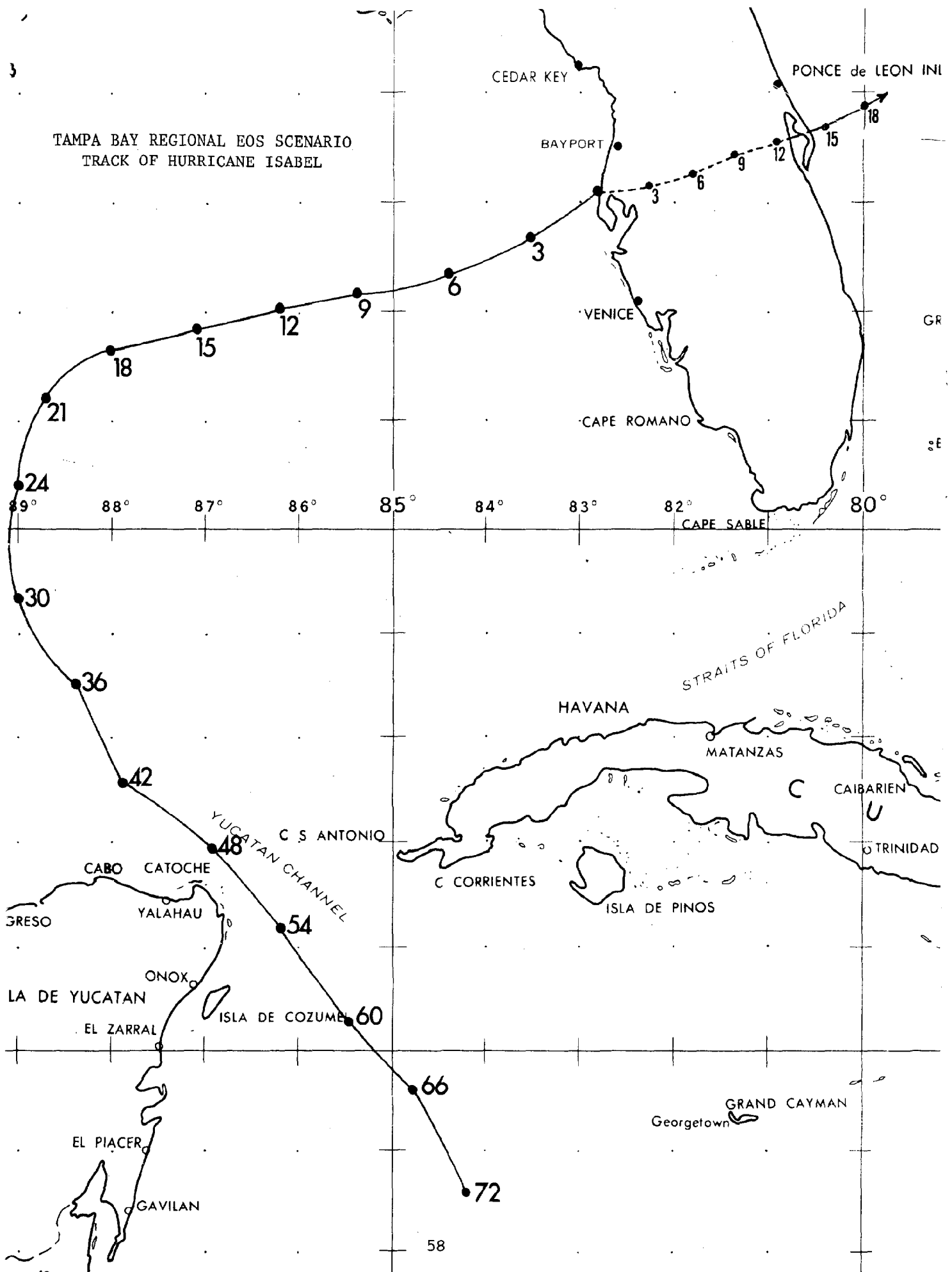
The Committee unanimously agreed that the television graphics test of evacuation level/zone/route/shelter information (utilizing PBS station WEDU-TV Channel 3) pointed out the necessity of television as a mode for disseminating such emergency detailed instructions to the public. The clarity and effectiveness of the WEDU-TV video segments also points toward the feasibility of such a pre-taped system for use by all television stations in the Tampa Bay Region.

Recommendation: It is recommended that a pre-taped video system, for use by all television stations in the Tampa Bay Region, be developed to disseminate detailed evacuation instructions to the public during the approach of a hurricane.

APPENDIX A

TAMPA BAY REGION EOS SCENARIO

TAMPA BAY REGIONAL EOS SCENARIO
TRACK OF HURRICANE ISABEL



EXERCISE***EXERCISE***EXERCISE

ADVISORY #1

CPA = 72 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 1

NATIONAL HURRICANE CENTER, MIAMI, FL

6AM EDT TUES MAY 4, 1982

THE TROPICAL DEPRESSION THAT ORIGINATED IN THE WESTERN CARIBBEAN SEA AT LATITUDE 15° NORTH, LONGITUDE 80° WEST, AND WAS NAMED TROPICAL STORM ISABEL ON MONDAY AT 6AM, HAS INTENSIFIED TO HURRICANE STRENGTH.

THE STORM IS CURRENTLY LOCATED AT LATITUDE 18.7° NORTH, LONGITUDE 84.3° WEST, MOVING TOWARD THE NORTHWEST AT ABOUT 10 MPH. THE PRESSURE IN THIS HURRICANE IS 985 MILLIBARS OR 29.09 INCHES. MAXIMUM SUSTAINED WINDS HAVE BEEN MEASURED AT 75 MPH WITH GUSTS OF UP TO 95 MPH REPORTED NEAR THE CENTER OF THE STORM AND EXTENDING ABOUT 25 MILES TO THE NORTHEAST OF THE CENTER.

HURRICANE ISABEL WILL THREATEN EXTREME WESTERN CUBA AND NORTHEASTERN YUCATAN WITH RISING TIDES AND DANGEROUS WINDS BY LATE TONIGHT. THE STORM IS EXPECTED TO INTENSIFY AS IT CONTINUES MOVEMENT TOWARD THE YUCATAN CHANNEL IN THE NEXT 24 HOURS.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 NOON EDT.

TAMPA BAY EOS

REAL TIME = MAY 4, 1982 - 12:00 NOON
(PRE-EOS)

EXERCISE***EXERCISE***EXERCISE***

ADVISORY #2
CPA = 66 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 2
NATIONAL HURRICANE CENTER, MIAMI, FL
12 NOON EDT TUES MAY 4, 1982

HURRICANE ISABEL IS NOW LOCATED AT LATITUDE 19.6 NORTH, LONGITUDE 84.8 WEST, CONTINUING TOWARD THE NORTHWEST AT 10 MPH. THE PRESSURE HAS BEEN MEASURED AT 980 MILLIBARS OR 28.94 INCHES. MAXIMUM SUSTAINED WINDS ARE NOW REACHING 85 MPH WITH GUSTS UP TO 100 MPH REPORTED EXTENDING ABOUT 25 MILES TO THE NORTHEAST OF THE STORM CENTER. ISABEL IS NOW SHOWING A DISTINCT SMALL CLOUDLESS EYE.

EVACUATION PREPAREDNESS ADVICE HAS BEEN ISSUED TO EXTREME WESTERN CUBA AND THE YUCATAN PENINSULA AS FAR WEST AS MERIDA.

LITTLE CHANGE IN SPEED AND DIRECTION OF THE HURRICANE IS EXPECTED OVER THE NEXT 6 TO 12 HOURS. REPEATING THE 12 NOON POSITION...LATITUDE 19.6 NORTH, LONGITUDE 84.8 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6PM EDT.

EXERCISE***EXERCISE***EXERCISE

CONFERENCE CALL #1

CPA = 63 HOURS

- SITUATION:
- (a) Results of computations from the numerical prediction models show projected landfall points ranging from the mid-Texas coast, mid-Louisiana coast, to a point near Panama City, Florida.
 - (b) A pronounced trough of low pressure is moving inland from the Pacific, expected to move eastward, possibly bringing west or southwest winds to the northern Gulf of Mexico.
 - (c) Indications were that the steering currents would weaken as Isabel approached the central Gulf of Mexico.

INITIATED BY: National Hurricane Center

PARTIES: National Hurricane Center (Miami)
NWS - Tampa Area Office (Ruskin)
Pinellas County CES
Hillsborough County F & D
Manatee County CD
Pasco County DP
Florida Bureau of Disaster Preparedness (Tallahassee)

TAMPA BAY EOS

REAL TIME = MAY 4, 1982 - 6:00 P.M.
(PRE-EOS)

EXERCISE***EXERCISE***EXERCISE

ADVISORY #3
CPA = 60 HOURS

BULLETIN

HURRICANE ISABEL -ADVISORY NUMBER 3
NATIONAL HURRICANE CENTER, MIAMI, FL
6PM EDT TUES MAY 4, 1982

HURRICANE ISABEL IS CURRENTLY LOCATED AT LATITUDE 20.3 NORTH, LONGITUDE 85.4 WEST MOVING TOWARD THE NORTHWEST AT 10 MPH. STORM PRESSURE IS 975 MILLIBARS OR 28.79 INCHES. MAXIMUM SUSTAINED WINDS ARE 90 MPH WITH REPORTED GUSTS OF 105 MPH. HIGHEST WINDS ARE EXTENDING ABOUT 20 MILES TO THE EAST OF THE HURRICANE'S EYE.

THE NORTHEAST YUCATAN PENINSULA IS NOW EXPERIENCING HURRICANE-FORCE WINDS AND A COASTAL TIDAL SURGE OF UP TO 7 FEET ABOVE MEAN SEA LEVEL.

EXPECTED WEST OR SOUTHWEST WINDS THROUGH THE NORTHERN GULF OF MEXICO INDICATE THAT ISABEL'S TRACK COULD DIVERT TO A MORE NORTHWARD COURSE IN THE NEXT 12 TO 24 HOURS.

REPEATING THE 6PM POSITION...LATITUDE 20.3 NORTH, LONGITUDE 85.4 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 MIDNIGHT EDT.

TAMPA BAY EOS

REAL TIME = MAY 4, 1982 - 12:00 MIDNIGHT
(PRE-EOS)

EXERCISE***EXERCISE***EXERCISE

ADVISORY #4

CPA = 54 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 4
NATIONAL HURRICANE CENTER, MIAMI, FL
12 MIDNIGHT EDT TUES MAY 4, 1982

HURRICANE ISABEL IS CURRENTLY LOCATED AT LATITUDE 21.2 NORTH, LONGITUDE 86.2 WEST CONTINUING ON A NORTHWESTWARD COURSE AT A FORWARD SPEED OF 10 MPH. THE STORM'S PRESSURE HAS BEEN MEASURED AT 975 MILLIBARS OR 28.79 INCHES. MAXIMUM SUSTAINED WINDS ARE NOW AT 95 MPH WITH GUSTS UP TO 110 MPH. HIGHEST WINDS ARE EXTENDING ABOUT 15 MILES TO THE EAST OF THE CENTER OF THE HURRICANE.

THE MAXIMUM WINDS OF ISABEL ARE NOW APPROACHING THE EXTREME EASTERN TIP OF THE YUCATAN PENINSULA WITH TIDES IN THAT AREA LAST REPORTED AT ABOUT 8 FEET ABOVE NORMAL.

ISABEL SHOULD CONTINUE MOVING TOWARD THE NORTH-NORTHWEST INTO THE GULF OF MEXICO WITH FURTHER STRENGTHENING EXPECTED.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6AM EDT.

TAMPA BAY EOS

REAL TIME = MAY 5, 1982 6:00 A.M.
(PRE-EOS)

EXERCISE***EXERCISE***EXERCISE

ADVISORY #5

CPA = 48 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 5
NATIONAL HURRICANE CENTER, MIAMI FL
6AM EDT WEDS MAY 5, 1982

HURRICANE ISABEL HAS MOVED INTO THE SOUTHERN GULF OF MEXICO, NOW LOCATED AT LATITUDE 21.9 NORTH, LONGITUDE 86.9 WEST MOVING TOWARD THE NORTH-NORTHWEST AT 10 MPH. THE PRESSURE WITHIN THE STORM HAS DROPPED TO 970 MILLIBARS OR 28.65 INCHES, A CATEGORY 2 HURRICANE ON THE SAFFIR/SIMPSON DAMAGE POTENTIAL SCALE. MAXIMUM SUSTAINED WINDS ARE CONTINUING AT ABOUT 95 MPH WITH PEAK GUSTS UP TO 110 MPH. HIGHEST WINDS EXTEND APPROXIMATELY 15 MILES TO THE EAST OF THE EYE.

LITTLE CHANGE IN SPEED OR DIRECTION OF ISABEL IS EXPECTED OVER THE NEXT 6 HOURS, HOWEVER, GRADUAL STRENGTHENING IS ANTICIPATED.

REPEATING THE 6AM POSITION OF HURRICANE ISABEL...LATITUDE 21.9 NORTH, LONGITUDE 86.9 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 NOON EDT.

EXERCISE***EXERCISE***EXERCISE

SLOSH RUN
CPA = 48 HOURSPINELLAS COUNTY
SL-L-TN-2Coastal Land Pts.Surge Height Values

St. Ptr.E. (22,24)	5.8
St. Ptr.S (26,29)	7.6
Sfty. Hrbr (27,12)	5.8
Largo Inlet (28,17)	5.9
Pin.Bywy. (28,29)	8.0
St. Grg L. (29,11)	*
Cross Byou (29,23)	10.0
Bay Pines E (29,24)	10.8
Trs. Isl C. (29,26)	9.2
S. Psdns W. (29,27)	8.8
S. Ptr.B (29,29)	8.1
Seminole (30,22)	7.7
Bay Pines W.(30,24)	9.8
Johns Pass (30,25)	9.0
Rdngton B (31,24)	8.7
Salt Lake (32,7)	Wet
Dunedin N. (32,11)	7.7
Dunein S. (32,13)	8.5
Clwtr C (32,16)	7.2
Beleair (32,18)	7.3
Tarpon Sp. (33,8)	7.0
Beleair B (33,19)	6.7
Indian R. (33,20)	6.1
Indian Sh. (33,22)	7.4

Open Water Pts.Surge Height Values

Mouth (31,35)	5.1
St. Peter. (22,26)	5.8
Sfty. Harbor (26,14)	6.1
St. Pt. Beach (30,27)	8.3
Clearwaer (33,16)	6.7
Tarpon Springs (34,9)	7.5

PASCO COUNTY
SL-L-NN-2

<u>Coastal Land Pts.</u>	<u>Surge Height Values</u>
Bailey's Bluff (34,6)	10.2

HILLSBOROUGH COUNTY
SL-L-TC-2

<u>Coastal Land Pts.</u>	<u>Surge Height Values</u>
Riverview (2,19)	12.0
Gibsonton (7,20)	11.6
McKay Bay N. (10,12)	12.6
McKay Bay W. (12,14)	10.9
Davis Isl. (13,15)	10.3
MacDill E. (14,22)	8.9
Little Manatee R (14,33)	7.2
Interbay Pn (15,17)	9.5
MacDill W. (17,22)	7.4
Gandy E. (18,19)	7.1
H. Frankland E. (19,15)	6.9
C. Campbell E. (20,14)	6.9
Dbl.Br By (24,12)	6.3

<u>Open Water Pts.</u>	<u>Surge Height Values</u>
Mouth (31,35)	4.5
Prt. Tampa (18,20)	7.0
Seddon Isl. (13,21)	9.4
Gardenville (8,22)	10.2
Camp Key (19,32)	6.1

MANATEE COUNTY
SL-L-KE-2

<u>Coastal Land Pts.</u>	<u>Surge Height Values</u>
Palmetto (24,39)	5.1
Braden R (24,43)	2.6
Terra Ceia (25,37)	4.6
Bradenton (25,42)	2.5
Pal Sol N (29,40)	5.2
Pal Sol S (30,41)	5.6
Holmes B (31,39)	5.7
Cortez (31,40)	5.6
Longboat Key (31,44)	6.8
Longboat Ps (32,42)	6.0

<u>Open Water Pts.</u>	<u>Surge Height Values</u>
Mouth (31,35)	2.5

EXERCISE***EXERCISE***EXERCISE

ADVISORY #6

CPA = 42 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 6
NATIONAL HURRICANE CENTER, MIAMI, FL
12 NOON EDT WEDS MAY 5, 1982

THE WEATHER SERVICE ADVISES THAT A HURRICANE WATCH HAS BEEN ISSUED FOR THE COASTAL AREA OF THE GULF OF MEXICO EXTENDING FROM GRAND ISLE, LOUISIANA EASTWARD TO SAINT MARKS, FLORIDA. HURRICANE ISABEL IS CURRENTLY LOCATED AT LATITUDE 22.6 NORTH, LONGITUDE 87.9 WEST.

THE STORM CONTINUES TO MOVE TOWARD THE NORTH-NORTHWEST AT A FORWARD SPEED OF 10 MPH, PRESSURE IS NOW MEASURED AT 965 MILLIBARS OR 28.50 INCHES. MAXIMUM SUSTAINED WINDS ARE NOW 100 MPH WITH PEAK GUSTS RECORDED AS HIGH AS 115 MPH. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST FROM THE CENTER OF THE HURRICANE.

SMALL CRAFT SHOULD REMAIN IN PORT ALONG THE COASTAL AREA FROM GRAND ISLE, LOUISIANA EASTWARD TO SAINT MARKS, FLORIDA.

RESIDENTS IN THE COASTAL AREA UNDER THIS WATCH SHOULD STAY TUNED TO RADIO OR TV FOR FURTHER ADVISORIES ON HURRICANE ISABEL.

ISABEL IS EXPECTED TO CONTINUE A GRADUAL TURN IN DIRECTION TO THE NORTH OR NORTHEAST AND WILL PROBABLY MAKE LANDFALL SOMETIME THURSDAY NIGHT OR FRIDAY MORNING. THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6PM EDT.

EXERCISE***EXERCISE***EXERCISE

CONFERENCE CALL #2

CPA = 39 HOURS

- SITUATION:
- (a) Results of computations from the numerical prediction models show projected landfall points ranging from Pensacola to Cedar Key, Florida.
 - (b) The trough that was moving inland from the Pacific is approaching the Great Lakes bringing west winds to the northern Gulf of Mexico.
 - (c) The earlier steering currents affecting Isabel appear to be weakening.

INITIATED BY: National Hurricane Center

PARTIES:

- National Hurricane Center (Miami)
- NWS - Tampa Area Office (Ruskin)
- Pinellas County CES
- Hillsborough County F & D
- Manatee County CD
- Pasco County DP
- Florida Bureau of Disaster Preparedness (Tallahassee)

TAMPA BAY EOS

REAL TIME = May 5, 1982 - 7:00 p.m.
(PRE-EOS)

EXERCISE *** EXERCISE *** EXERCISE

LOCAL STATEMENT #1

CPA = 35 HOURS

BULLETIN

HURRICANE ISABEL --- LOCAL STATEMENT NUMBER 1
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
7 PM EDT WEDS MAY 5, 1982

...HURRICANE WATCH EXTENDED TO INCLUDE MOST OF THE WEST COAST...

THIS STATEMENT CONCERNS RESIDENTS OF THE FOLLOWING FLORIDA COUNTIES...
LEVY...CITRUS...HERNANDO...PASCO...PINELLAS...HILLSBOROUGH...MANATEE...
AND SARASOTA. STATEMENTS ARE ALSO BEING ISSUED FOR OTHER COUNTIES
BY WEATHER SERVICE OFFICES AT FORT MYERS...TALLAHASSEE..
APALACHICOLA..AND PENSACOLA.

THE HURRICANE WATCH MEANS HURRICANE ISABEL POSES A POSSIBLE THREAT
TO THE WEST COAST FROM FORT MYERS NORTHWARD. AT 6 PM THIS EVENING
ISABEL WAS ABOUT 400 MILES TO THE SOUTHWEST OF THE TAMPA BAY AREA MOVING
TO THE NORTH-NORTHWEST AT 10 MPH.

WHILE THERE IS NO IMMEDIATE DANGER..RESIDENTS MAY WANT TO BEGIN CHECKING
EMERGENCY SUPPLIES AND MAKING PLANS IN THE EVENT A WARNING IS ISSUED AT
A LATER TIME. MARINE INTERESTS MAY WANT TO BEGIN ANY HURRICANE PREPARATIONS
WHICH REQUIRE A CONSIDERABLE LENGTH OF TIME. SMALL CRAFT SHOULD REMAIN
IN PORT.

TIDES THIS EVENING ARE NEAR NORMAL ALONG THE WEST COAST. HOWEVER..AS
THE HURRICANE MOVES NORTHEASTWARD TONIGHT..TIDES BY SUNRISE WILL LIKELY
RISE TO ONE TO TWO FEET ABOVE NORMAL.

ALL PERSONS ALONG THE WEST COAST SHOULD KEEP IN CLOSE TOUCH WITH LATER
ADVISORIES AND STATEMENTS. STAY TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER
RADIO FOR LATEST INFORMATION.

THE NEXT LOCAL STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER
SERVICE OFFICE AT 1 AM THURSDAY MORNING.

EXERCISE...EXERCISE...EXERCISE

EXERCISE***EXERCISE***EXERCISE

ADVISORY #7
CPA 36 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 7
NATIONAL HURRICANE CENTER, MIAMI, FL
6PM EDT WEDS MAY 5, 1982

THE WEATHER SERVICE ADVISES THAT THE HURRICANE WATCH ISSUED FOR THE COASTAL AREA OF THE GULF OF MEXICO EXTENDING FROM GRAND ISLE, LOUISIANA EASTWARD TO SAINT MARKS, FLORIDA AT 12 NOON TODAY IS NOW EXTENDED FROM SAINT MARKS, FLORIDA SOUTHWARD TO FORT. MYERS, FLORIDA. HURRICANE ISABEL IS NOW LOCATED AT LATITUDE 23.5 NORTH, LONGITUDE 88.4 WEST MOVING TOWARD THE NORTH-NORTHWEST AT 10 MPH.

THE PRESSURE WITHIN THE STORM IS 960 MILLIBARS OR 28.35 INCHES. MAXIMUM SUSTAINED WINDS ARE NOW 105 MPH WITH GUSTS OF UP TO 120 MPH. HIGHEST WINDS EXTEND ABOUT 15 MILES TO THE EAST AND SOUTH FROM THE STORM CENTER.

PREPAREDNESS ORGANIZATIONS IN THE WATCH AREA SHOULD BEGIN CHECKING EMERGENCY SUPPLIES, REVIEWING EMERGENCY PROCEDURES, AND EVACUATION PLANS AND PREPARE TO TAKE FURTHER EMERGENCY MEASURES IF A HURRICANE WARNING IS ISSUED THROUGH A LATER ADVISORY BULLETIN.

SMALL CRAFT SHOULD REMAIN IN PORT ALONG THE COASTAL AREA FROM GRAND ISLE, LOUISIANA EASTWARD TO SAINT MARKS, FLORIDA.

RESIDENTS IN THE COASTAL AREA UNDER THIS WATCH SHOULD STAY TUNED TO RADIO OR TV FOR FURTHER ADVISORIES ON HURRICANE ISABEL.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12:00 MIDNIGHT EDT.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #8
CPA = 30 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 8
NATIONAL HURRICANE CENTER, MIAMI, FL
12 MIDNIGHT EDT MAY 5, 1982

THE WEATHER SERVICE ADVISES THAT A HURRICANE WATCH CONTINUES IN EFFECT FOR THE COASTAL AREA OF THE GULF OF MEXICO EXTENDING FROM GRAND ISLE, LOUISIANA EASTWARD TO SAINT MARKS, FLORIDA AND FROM SAINT MARKS, FLORIDA SOUTHWARD TO FORT MYERS, FLORIDA. IN ADDITION, A HURRICANE WATCH IS NOW ISSUED FOR THE FLORIDA EAST COAST FROM JACKSONVILLE SOUTHWARD TO VERO BEACH. HURRICANE ISABEL IS NOW LOCATED AT LATITUDE 24.3 NORTH, LONGITUDE 89.0 WEST MOVING TOWARD THE NORTH-NORTHWEST AT 10 MPH.

STORM PRESSURE IS NOW 955 MILLIBARS OR 28.20 INCHES. MAXIMUM SUSTAINED WINDS ARE NOW 110 MPH WITH GUSTS RECORDED AS HIGH AS 125 MPH. HIGHEST WINDS CONTINUE TO EXTEND ABOUT 15 MILES TO THE EAST AND SOUTH FROM THE STORM CENTER.

PREPAREDNESS ORGANIZATIONS IN THE WATCH AREA SHOULD BEGIN CHECKING EMERGENCY SUPPLIES, REVIEWING EMERGENCY PROCEDURES, AND EVACUATION PLANS AND PREPARE TO TAKE FURTHER EMERGENCY MEASURES IF A HURRICANE WARNING IS ISSUED THROUGH A LATER ADVISORY BULLETIN.

SMALL CRAFT SHOULD REMAIN IN PORT ALONG THE COASTAL AREA FROM GRAND ISLE, LOUISIANA EASTWARD TO SAINT MARKS, FLORIDA AND SOUTHWARD TO FORT MYERS, FLORIDA.

RESIDENTS IN THE COASTAL AREA UNDER THIS WATCH SHOULD STAY TUNED TO RADIO, TV, OR NOAA WEATHER RADIO FOR FURTHER ADVISORIES ON HURRICANE ISABEL.

HURRICANE WARNINGS ARE EXPECTED TO BE ISSUED FOR SOME SECTIONS OF THE FLORIDA WEST COAST AS EARLY AS 6AM THIS MORNING. LANDFALL OF HURRICANE ISABEL IS EXPECTED AFTER MIDNIGHT THURSDAY.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6AM EDT.

EXERCISE***EXERCISE***EXERCISE

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #2
CPA = 29 HOURS

BULLETIN

HURRICANE ISABEL --- LOCAL STATEMENT NUMBER 2
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
ISSUED 1 AM EDT THURS MAY 6, 1982

...HURRICANE WATCH CONTINUED TO INCLUDE MOST OF THE WEST COAST....

THIS STATEMENT CONCERNS RESIDENTS OF THE FOLLOWING FLORIDA COUNTIES...
LEVY...CITRUS...HERNANDO...PASCO...PINELLAS...HILLSBOROUGH...MANATEE...
AND SARASOTA. STATEMENTS ARE ALSO BEING ISSUED FOR OTHER COUNTIES
BY WEATHER SERVICE OFFICES AT FORT MYERS..TALLAHASSEE
APALACHICOLA..AND PENSACOLA.

THE HURRICANE WATCH MEANS HURRICANE ISABEL POSES A POSSIBLE THREAT
TO THE WEST COAST FROM FORT MYERS NORTHWARD, AT 12 MIDNIGHT
ISABEL WAS ABOUT 380 MILES TO THE SOUTHWEST OF THE TAMPA BAY AREA MOVING
TO THE NORTH AT 10 MPH.

WHILE THERE IS NO IMMEDIATE DANGER..RESIDENTS MAY WANT TO BEGIN CHECKING
EMERGENCY SUPPLIES AND MAKING PLANS IN THE EVENT A WARNING IS ISSUED AT
A LATER TIME. MARINE INTERESTS MAY WANT TO BEGIN ANY HURRICANE PREPARATIONS
WHICH REQUIRE A CONSIDERABLE LENGTH OF TIME. SMALL CRAFT SHOULD REMAIN
IN PORT.

TIDES THIS MIDNIGHT ARE NEAR NORMAL ALONG THE WEST COAST. HOWEVER..AS
THE HURRICANE MOVES NORTHWARD..TIDES BY SUNRISE WILL LIKELY
RISE TO ONE TO TWO FEET ABOVE NORMAL.

ALL PERSONS ALONG THE WEST COAST SHOULD KEEP IN CLOSE TOUCH WITH LATER
ADVISORIES AND STATEMENTS. STAY TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER
RADIO FOR THE LATEST INFORMATION.

THE NEXT LOCAL STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER
SERVICE OFFICE AT 7 AM THURSDAY MORNING.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #9
CPA = 24 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 9
NATIONAL HURRICANE CENTER MIAMI, FL
6AM EDT THURS MAY 6, 1982

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING HAS BEEN ISSUED FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO SARASOTA. IN ADDITION, GALE WARNINGS ARE ISSUED WESTWARD TO PANAMA CITY AND SOUTHWARD TO NAPLES. A DANGEROUS HURRICANE NOW THREATENS MOST OF WEST FLORIDA. SAFETY PRECAUTIONS SHOULD BE INITIATED WITH ALL POSSIBLE URGENCY IN THESE AREAS.

COASTAL FLOODING COULD REACH 10 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ALL PREPAREDNESS OFFICIALS IN THE COASTAL COUNTIES FROM SAINT MARKS TO SARASOTA HAVE BEEN URGED TO IMPLEMENT APPROPRIATE EVACUATION PLANS IMMEDIATELY. FOR DETAILED INFORMATION ON EVACUATION CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS.

A HURRICANE WATCH CONTINUES OUTSIDE THE AREA OF HURRICANE WARNING FROM GRAND ISLE, LOUISIANA THROUGH THE FLORIDA KEYS.

THERE IS A POSSIBILITY OF A FEW TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA THIS EVENING ASSOCIATED WITH RAIN SQUALLS WHICH ARE EXPECTED IN ADVANCE OF THE HURRICANE.

SMALL CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST AND ALONG THE GULF COAST FROM GRAND ISLE, LOUISIANA EASTWARD.

AT 6AM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 25.4 NORTH LONGITUDE 89.0 WEST. THE STORM HAS INCREASED IN FORWARD SPEED TO ABOUT 15 MPH AND IS EXPECTED TO TURN TO THE NORTHEAST OVER THE NEXT 6 TO 12 HOURS.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 115 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 955 MILLIBARS OR 28.20 INCHES.

REPEATING THE 6AM POSITION...LATITUDE 25.4 NORTH LONGITUDE 89.0 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 NOON EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

TAMPA BAY EOS

REAL TIME = MAY 6, 1982 - 9:00 a.m.
(EOS)

EXERCISE***EXERCISE***EXERCISE

SLOSH RUN

CPA = 24 HOURS

PINELLAS COUNTY
SL-L-TN-3

<u>Coastal Land Pts.</u>	<u>Surge Height Values</u>
St. Ptr.E. (22,24)	9.2
St. Ptr.S. (26,29)	12.5
Sfty. Hrbr (27,12)	9.5
Largo Inlet (28,17)	9.3
Pin.Bywy. (28,29)	10.8
St. Grg L. (29,11)	7.5
Cross Byou (29,23)	14.1
Bay Pines E.(29,24)	14.9
Trs. Isl C. (29,26)	12.6
S. Psdns W. (29,27)	11.5
S. Ptr.B (29,29)	10.5
Seminole (30,22)	13.7
Bay Pines W.(30,24)	12.5
Johns Pass (30,25)	12.3
Rdngton B (31,24)	12.1
Salt Lake (32,7)	9.7
Dunedin N. (32,11)	11.8
Dunein S. (32,13)	12.2
Clwtr C (32,16)	10.2
Beleair (32,18)	9.8
Tarpon Sp. (33,8)	10.8
Beleair B (33,19)	8.9
Indian R.(33,20)	9.8
Indian Sh. (33,22)	10.3

<u>Open Water Pts.</u>	<u>Surge Height Values</u>
Mouth (31,35)	7.6
St. Peter. (22,26)	9.0
Sfty. Harbor (26,14)	9.9
St. Pt. Beach (30,27)	11.2
Clearwaer (33,16)	8.8
Tarpon Springs (34,9)	10.1

PASCO COUNTY
SL-L-NN-3

<u>Coastal Land Pts.</u>	<u>Surge Height Values</u>
Bailey's Bluff (34,6)	14.3

HILLSBOROUGH COUNTY
SL-L-TC-3

<u>Coastal Land Pts.</u>	<u>Surge Height Values</u>
Riverview (2,19)	20.7
Gibsonton (7,20)	18.0
McKay Bay N. (10,12)	20.2
McKay Bay W. (12,14)	17.8
Davis Isl. (13,15)	16.8
MacDill E. (14,22)	14.5
Little Manatee R (14,33)	11.7
Interbay Pn.(15,17)	15.7
MacDill W. (17,22)	12.0
Gandy E. (18,19)	11.6
H. Frankland E. (19,15)	11.4
C. Campbell E. (20,14)	10.9
Dbl.Br By (24,12)	10.3

<u>Open Water Pts.</u>	<u>Surge Height Values</u>
Mouth (31,35)	7.4
Prt. Tampa (18,20)	11.5
Seddon Isl. (13,21)	15.2
Gardenville (8,22)	16.6
Camp Key (19,32)	9.9

MANATEE COUNTY
SL-L-KE-3

<u>Coastal Land Pts.</u>	<u>Surge Height Values</u>
Palmetto (24,39)	10.2
Braden R (24,43)	4.7
Terra Ceia (25,37)	7.0
Bradenton (25,42)	4.4
Pal Sol N (29,40)	10.6
Pal Sol S (30,41)	10.8
Holmes B (31,39)	7.8
Cortez (31,40)	8.6
Longboat Key (31,44)	10.5
Longboat Ps (32,42)	8.9

<u>Open Water Pts.</u>	<u>Surge Height Values</u>
Mouth (31,35)	3.7

EXERCISE***EXERCISE***EXERCISE

CONFERENCE CALL #3
CPA = 24 HOURS

SITUATION: (a) Results of computations from the numerical prediction models show projected landfall points ranging from Panama City to Sarasota, Florida.

(b) The southward penetration of the low pressure trough into the Gulf of Mexico has occurred with greater force than expected.

(c) West to southwest winds were now extending into the central Gulf of Mexico.

INITIATED BY: National Hurricane Center

PARTIES: National Hurricane Center (Miami)
NWS - Tampa Area Office (Ruskin)
Pinellas County CES
Hillsborough County F & D
Manatee County CD
Pasco County DP
Florida Bureau of Disaster Preparedness (Tallahassee)

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #3

CPA = 23 HOURS

BULLETIN

HURRICANE ISABEL --- LOCAL STATEMENT NUMBER 3
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
7 AM EDT THURS MAY 6, 1982

DANGEROUS HURRICANE ISABEL THREATENS MOST OF WEST FLORIDA...

THIS STATEMENT CONCERNS THE FOLLOWING FLORIDA COUNTIES...LEVY..CITRUS..
HERNANDO..PASCO..PINELLAS..HILLSBOROUGH..MANATEE..AND SARASOTA.
STATEMENTS ARE ALSO BEING ISSUED FOR OTHER FLORIDA COUNTIES BY WEATHER
SERVICE OFFICES AT FORT MYERS..TALLAHASSEE..APALACHICOLA..AND PENSACOLA.

HURRICANE WARNINGS WERE POSTED AT 6 AM THIS MORNING FROM SARASOTA NORTH
TO SAINT MARKS. THE CENTER OF ISABEL AT 6 AM WAS LOCATED ABOUT 360 MILES
SOUTHWEST OF THE TAMPA BAY AREA MOVING NORTHEAST AT ABOUT 15 MPH.
HURRICANE FORCE WINDS EXTEND OUT ABOUT 50 MILES IN THE EASTERN SEMICIRCLE..
AND GALE FORCE WINDS EXTEND OUT ABOUT 90 MILES.

PERSONS ALONG THE COASTLINE IN THE WARNING AREA SHOULD RUSH TO COMPLETION
ALL HURRICANE PREPARATIONS. FOR RESIDENTS OF SARASOTA..MANATEE..
PINELLAS..HILLSBOROUGH..AND PASCO COUNTIES..DETAILED EVACUATION
INFORMATION IS BEING ISSUED BY LOCAL OFFICIALS.

FOR RESIDENTS OF HERNANDO..CITRUS..AND LEVY COUNTIES..EVACUATION IS
RECOMMENDED GENERALLY ALONG AND TO THE WEST OF HIGHWAY U.S. 19.
RESIDENTS SHOULD ALSO CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC
OFFICIALS.

ALL MOBILE HOME RESIDENTS IN THE WARNING AREA..AS WELL AS THOSE IN THE
INTERIOR COUNTIES OF SUMTER..AND POLK..SHOULD SEEK MORE SUBSTANTIAL
SHELTER.

IT APPEARS THAT GALE FORCE WINDS WILL BEGIN TO AFFECT THE COAST FROM
SARASOTA NORTH TO HERNANDO COUNTY BY LATE AFTERNOON TODAY OR EARLY THIS
EVENING. SINCE THE WINDS WILL BE FROM A SOUTHERLY DIRECTION..WAVE ACTION
AND HIGH TIDES WILL CAUSE APPROACHES TO BRIDGES AND CAUSEWAYS TO BECOME
IMPASSABLE FOR AUTOMOBILE TRAFFIC BY LATE TODAY. THEREFORE...ALL TRAVEL
SHOULD BE COMPLETED DURING DAYLIGHT HOURS.

TIDES THIS MORNING ARE ABOUT TWO FEET ABOVE NORMAL...OR NEAR 3 FEET
ABOVE MEAN SEA LEVEL. WITH INCREASING SOUTHERLY WINDS TODAY AND THE
NEXT HIGH TIDE DURING MID AFTERNOON...TIDES WILL LIKELY BE 4 TO 5 FEET
ABOVE MEAN SEA LEVEL BY LATE TODAY.

INCREASING WAVE ACTION ALONG THE BEACHES WILL CAUSE EXTENSIVE EROSION
LATER TODAY...AND ALSO CAUSE DANGEROUS RIPCURRENTS IN THE SURF.

REPEATING...THIS IS A VERY DANGEROUS HURRICANE AND ALL SAFETY PRECAUTIONS
SHOULD BE RUSHED TO COMPLETION WITH ALL POSSIBLE URGENCY.

STAY TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER RADIO FOR THE LATEST INFORMATION.

THE NEXT STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER SERVICE OFFICE AT 10 AM THIS MORNING.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #10
CPA = 21 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 10
NATIONAL HURRICANE CENTER MIAMI, FL
9AM EDT THURS MAY 6, 1982

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING THAT WAS ISSUED AT 6AM FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO SARASOTA HAS BEEN EXTENDED SOUTHWARD TO INCLUDE FT. MYERS. IN ADDITION, THE GALE WARNINGS THAT WERE ISSUED WESTWARD TO PANAMA CITY AND SOUTHWARD TO NAPLES HAS BEEN EXTENDED SOUTHWARD TO KEY WEST. A DANGEROUS HURRICANE NOW THREATENS MOST OF WEST FLORIDA. SAFETY PRECAUTIONS SHOULD BE INITIATED WITH ALL POSSIBLE URGENCY IN THESE AREAS.

COASTAL FLOODING COULD REACH 10 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ALL PREPAREDNESS OFFICIALS IN THE COASTAL COUNTIES FROM SAINT MARKS TO FT. MYERS HAVE BEEN URGED TO IMPLEMENT APPROPRIATE EVACUATION PLANS IMMEDIATELY. FOR DETAILED INFORMATION ON EVACUATION CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS.

A HURRICANE WATCH CONTINUES OUTSIDE THE AREA OF HURRICANE WARNING WESTWARD TO GRAND ISLE, LOUISIANA.

THERE IS A POSSIBILITY OF A FEW TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA THIS EVENING ASSOCIATED WITH RAIN SQUALLS WHICH ARE EXPECTED IN ADVANCE OF THE HURRICANE.

SMALL CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST AND ALONG THE GULF COAST FROM GRAND ISLE, LOUISIANA EASTWARD.

AT 9AM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 26.2 NORTH LONGITUDE 88.7 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 15 MPH. LITTLE CHANGE IN THE SPEED AND DIRECTION OF THE STORM IS EXPECTED DURING THE NEXT 12 HOURS.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 120 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 955 MILLIBARS OR 28.20 INCHES.

REPEATING THE 9AM POSITION...LATITUDE 26.2 NORTH LONGITUDE 88.7 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 NOON EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #4
CPA = 20 HOURS

BULLETIN

HURRICANE ISABEL -- LOCAL STATEMENT NUMBER 4
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
10 AM EDT THURS MAY 6, 1982

...DANGEROUS HURRICANE ISABEL THREATENS MOST OF WEST FLORIDA...

THIS STATEMENT CONCERNS THE FOLLOWING FLORIDA COUNTIES...LEVY..CITRUS..
HERNANDO..PASCO..PINELLAS..HILLSBOROUGH..MANATEE..AND SARASOTA.
STATEMENTS ARE ALSO BEING ISSUED FOR OTHER FLORIDA COUNTIES BY WEATHER
SERVICE OFFICES AT FORT MYERS..TALLAHASSEE..APALACHICOLA..AND PENSACOLA.

HURRICANE WARNINGS WERE POSTED AT 6 AM THIS MORNING FROM SARASOTA NORTH
TO SAINT MARKS. THE CENTER OF ISABEL AT 6 AM WAS LOCATED ABOUT 325 MILES
SOUTHWEST OF THE TAMPA BAY AREA MOVING NORTHEAST AT ABOUT 15 MPH.
HURRICANE FORCE WINDS EXTEND OUT ABOUT 50 MILES IN THE EASTERN SEMICIRCLE..
AND GALE FORCE WINDS EXTEND OUT ABOUT 90 MILES.

PERSONS ALONG THE COASTLINE IN THE WARNING AREA SHOULD RUSH TO COMPLETION
ALL HURRICANE PREPARATIONS. FOR RESIDENTS OF SARASOTA..MANATEE..
PINELLAS..HILLSBOROUGH..AND PASCO COUNTIES..DETAILED EVACUATION
INFORMATION IS BEING ISSUED BY LOCAL OFFICIALS.

FOR RESIDENTS OF HERNANDO..CITRUS..AND LEVY COUNTIES..EVACUATION IS
RECOMMENDED GENERALLY ALONG AND TO THE WEST OF HIGHWAY U.S. 19.
RESIDENTS SHOULD ALSO CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS.

ALL MOBILE HOME RESIDENTS IN THE WARNING AREA..AS WELL AS THOSE IN THE
INTERIOR COUNTIES OF SUMTER..AND POLK..SHOULD SEEK MORE SUBSTANTIAL SHELTER.

IT APPEARS THAT GALE FORCE WINDS WILL BEGIN TO AFFECT THE COAST FROM
SARASOTA NORTH TO HERNANDO COUNTY BY LATE AFTERNOON TODAY OR EARLY THIS
EVENING. SINCE THE WINDS WILL BE FROM A SOUTHERLY DIRECTION..WAVE ACTION AND
HIGH TIDES WILL CAUSE APPROACHES TO BRIDGES AND CAUSEWAYS TO BECOME IMPASSABLE
FOR AUTOMOBILE TRAFFIC BY LATE TODAY. THEREFORE...ALL TRAVEL SHOULD BE COMPLETED
DURING DAYLIGHT HOURS.

TIDES THIS MORNING ARE ABOUT TWO FEET ABOVE NORMAL...OR NEAR 3 FEET ABOVE
MEAN SEA LEVEL. WITH INCREASING SOUTHERLY WINDS TODAY AND THE NEXT HIGH
TIDE DURING MID AFTERNOON...TIDES WILL LIKELY BE 4 TO 5 FEET ABOVE MEAN
SEA LEVEL BY LATE TODAY.

INCREASING WAVE ACTION ALONG THE BEACHES WILL CAUSE EXTENSIVE EROSION
LATER TODAY...AND ALSO CAUSE DANGEROUS RIPCURRENTS IN THE SURF.

REPEATING...THIS IS A VERY DANGEROUS HURRICANE AND ALL SAFETY PRECAUTIONS
SHOULD BE RUSHED TO COMPLETION WITH ALL POSSIBLE URGENCY.

STAY TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER RADIO FOR THE LATEST
INFORMATION.

THE NEXT STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER SERVICE OFFICE AT
1 P. M. THIS AFTERNOON.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #11
CPA = 18 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 11
NATIONAL HURRICANE CENTER MIAMI, FL
12 NOON EDT THURS MAY 6, 1982

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, GALE WARNINGS CONTINUE WESTWARD TO PANAMA CITY AND SOUTHWARD TO KEY WEST. A DANGEROUS HURRICANE NOW THREATENS MOST OF WEST FLORIDA. SAFETY PRECAUTIONS SHOULD BE INITIATED WITH ALL POSSIBLE URGENCY IN THESE AREAS. THE WEATHER SERVICE ALSO ADVISES THAT A HURRICANE WARNING IS NOW ISSUED FOR THE EAST COAST FLORIDA COUNTIES OF VOLUSIA AND BREVARD.

COASTAL FLOODING COULD REACH 11 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

THE WEATHER SERVICE URGES ALL PREPAREDNESS OFFICIALS IN THE COASTAL COUNTIES FROM SAINT MARKS TO FT. MYERS TO IMPLEMENT APPROPRIATE EVACUATION PLANS IMMEDIATELY. FOR DETAILED INFORMATION ON EVACUATION CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS. LANDFALL OF HURRICANE ISABEL IS EXPECTED BY EARLY FRIDAY MORNING.

A HURRICANE WATCH CONTINUES OUTSIDE THE AREA OF HURRICANE WARNING WESTWARD TO GRAND ISLE, LOUISIANA.

THERE IS A STRONG POSSIBILITY OF A FEW TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA THIS EVENING ASSOCIATED WITH RAIN SQUALLS WHICH ARE EXPECTED IN ADVANCE OF THE HURRICANE.

SMALL CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST AND ALONG THE GULF COAST FROM GRAND ISLE, LOUISIANA EASTWARD.

AT 12 NOON EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 26.6 NORTH LONGITUDE 88.0 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 15 MPH. LITTLE CHANGE IN THE SPEED AND DIRECTION OF THE STORM IS EXPECTED DURING THE NEXT 12 HOURS.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 125 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 955 MILLIBARS OR 28.20 INCHES.

REPEATING THE 12 NOON POSITION...LATITUDE 26.6 NORTH LONGITUDE 88.0 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6PM EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #5
CPA - 17 HOURS

BULLETIN

HURRICANE ISABEL -- LOCAL STATEMENT NUMBER 5
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
ISSUED 1 PM EDT THURS MAY 6 1982

...DANGEROUS HURRICANE ISABEL THREATENS MOST OF WEST FLORIDA...

THIS STATEMENT CONCERNS THE FOLLOWING FLORIDA COUNTIES...LEVY..CITRUS..
HERNANDO..PASCO..PINELLAS..HILLSBOROUGH..MANATEE..AND SARASOTA.
STATEMENTS ARE ALSO BEING ISSUED FOR OTHER FLORIDA COUNTIES BY WEATHER
SERVICE OFFICES AT FORT MYERS..TALLAHASSEE..APALACHICOLA..AND PENSACOLA.

HURRICANE WARNINGS WERE POSTED AT 6 AM THIS MORNING FROM SARASOTA NORTH
TO SAINT MARKS. THE CENTER OF ISABEL AT 6 AM WAS LOCATED ABOUT 275 MILES
SOUTHWEST OF THE TAMPA BAY AREA MOVING NORTHEAST AT ABOUT 15 MPH.
HURRICANE FORCE WINDS EXTEND OUT ABOUT 50 MILES IN THE EASTERN SEMICIRCLE..
AND GALE FORCE WINDS EXTEND OUT ABOUT 90 MILES.

PERSONS ALONG THE COASTLINE IN THE WARNING AREA SHOULD RUSH TO COMPLETION
ALL HURRICANE PREPARATIONS. FOR RESIDENTS OF SARASOTA..MANATEE..PINELLAS..
HILLSBOROUGH..AND PASCO COUNTIES..DETAILED EVACUATION INFORMATION IS BEING
ISSUED BY LOCAL OFFICIALS.

FOR RESIDENTS OF HERNANDO..CITRUS..AND LEVY COUNTIES..EVACUATION IS
RECOMMENDED GENERALLY ALONG AND TO THE WEST OF HIGHWAY U.S. 19.
RESIDENTS SHOULD ALSO CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC
OFFICIALS.

ALL MOBILE HOME RESIDENTS IN THE WARNING AREA..AS WELL AS THOSE IN THE
INTERIOR COUNTIES OF SUMTER..AND POLK..SHOULD SEEK MORE SUBSTANTIAL SHELTER.

IT APPEARS THAT GALE FORCE WINDS WILL BEGIN TO AFFECT THE COAST FROM
SARASOTA NORTH TO HERNANDO COUNTY BY EARLY THIS EVENING. SINCE THE WINDS
WILL BE FROM A SOUTHERLY DIRECTION..WAVE ACTION AND HIGH TIDES WILL CAUSE
APPROACHES TO BRIDGES AND CAUSEWAYS TO BECOME IMPASSABLE FOR AUTOMOBILE
TRAFFIC BY LATE TODAY. THEREFORE..ALL TRAVEL SHOULD BE COMPLETED IN THE
NEW FEW HOURS.

TIDES THIS MORNING WERE ABOUT TWO FEET ABOVE NORMAL..OR NEAR 3 FEET ABOVE
MEAN SEA LEVEL. WITH INCREASING SOUTHERLY WINDS TODAY AND THE NEXT HIGH
TIDE DURING MID AFTERNOON...TIDES WILL LIKELY BE 4 TO 5 FEET ABOVE MEAN
SEA LEVEL BY LATE TODAY.

INCREASING WAVE ACTION ALONG THE BEACHES WILL CAUSE EXTENSIVE EROSION
LATER TODAY...AND ALSO CAUSE DANGEROUS RIPCURRENTS IN THE SURF.

REPEATING...THIS IS A VERY DANGEROUS HURRICANE AND ALL SAFETY PRECAUTIONS
SHOULD BE RUSHED TO COMPLETION WITH ALL POSSIBLE URGENCY.

STAY TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER RADIO FOR THE LATEST INFORMATION.
THE NEXT STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER SERVICE OFFICE
AT 4 PM THIS AFTERNOON.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #12

CPA = 15 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 12
NATIONAL HURRICANE CENTER MIAMI, FL
3PM EDT THURS MAY 6, 1982

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, GALE WARNINGS CONTINUE WESTWARD TO PANAMA CITY AND SOUTHWARD TO KEY WEST. A DANGEROUS HURRICANE NOW THREATENS MOST OF WEST FLORIDA. SAFETY PRECAUTIONS SHOULD BE INITIATED WITH ALL POSSIBLE URGENCY IN THESE AREAS.

COASTAL FLOODING COULD REACH 11 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ALL PREPAREDNESS OFFICIALS IN THE COASTAL COUNTIES FROM SAINT MARKS TO FT. MYERS HAVE BEEN URGED TO IMPLEMENT APPROPRIATE EVACUATION PLANS IMMEDIATELY. FOR DETAILED INFORMATION ON EVACUATION CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS. LANDFALL OF HURRICANE ISABEL IS EXPECTED BY EARLY FRIDAY MORNING.

A HURRICANE WATCH CONTINUES OUTSIDE THE AREA OF HURRICANE WARNING WESTWARD TO GRAND ISLE, LOUISIANA.

THERE IS A POSSIBILITY OF A FEW TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA THIS EVENING ASSOCIATED WITH RAIN SQUALLS WHICH ARE EXPECTED IN ADVANCE OF THE HURRICANE.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST.

AT 3PM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 26.8 NORTH LONGITUDE 87.1 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 15 MPH. LITTLE CHANGE IN THE SPEED AND DIRECTION OF THE STORM IS EXPECTED DURING THE NEXT 12 HOURS.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 125 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 955 MILLIBARS OR 28.20 INCHES.

REPEATING THE 3PM POSITION...LATITUDE 26.8 NORTH LONGITUDE 87.1 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6PM EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #6
CPA = 14 HOURS

BULLETIN

HURRICANE ISABEL...LOCAL STATEMENT NUMBER 6
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
ISSUED 4 PM ED THURS MAY 6, 1982

...DANGEROUS HURRICANE ISABEL THREATENS MOST OF WEST FLORIDA...

THIS STATEMENT CONCERNS THE FOLLOWING FLORIDA COUNTIES...LEVY..CITRUS..
HERNANDO...PASCO..PINELLAS..HILLSBOROUGH..MANATEE..AND SARASOTA.
STATEMENTS ARE ALSO BEING ISSUED FOR OTHER FLORIDA COUNTIES BY WEATHER
SERVICE OFFICES AT FORT MYERS..TALLAHASSEE..APALACHICOLA..AND PENSACOLA.

HURRICANE WARNINGS WERE POSTED AT 6 AM THIS MORNING FROM SARASOTA NORTH
TO SAINT MARKS. THE CENTER OF ISABEL AT 6 AM WAS LOCATED ABOUT 230 MILES
SOUTHWEST OF THE TAMPA BAY AREA MOVING NORTHEAST AT ABOUT 15 MPH.
HURRICANE FORCE WINDS EXTEND OUT ABOUT 50 MILES IN THE EASTERN SEMICIRCLE..
AND GALE FORCE WINDS EXTEND OUT ABOUT 90 MILES.

PERSONS ALONG THE COASTLINE IN THE WARNING AREA SHOULD RUSH TO COMPLETION
ALL HURRICANE PREPARATIONS. FOR RESIDENTS OF SARASOTA..MANATEE..
PINELLAS..HILLSBOROUGH..AND PASCO COUNTIES..DETAILED EVACUATION
INFORMATION IS BEING ISSUED BY LOCAL OFFICIALS.

FOR RESIDENTS OF HERNANDO..CITRUS..AND LEVY COUNTIES..EVACUATION IS
RECOMMENDED GENERALLY ALONG AND TO THE WEST OF HIGHWAY U.S. 19.
RESIDENTS SHOULD ALSO CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS.

ALL MOBILE HOME RESIDENTS IN THE WARNING AREA..AS WELL AS THOSE IN THE
INTERIOR COUNTIES OF SUMTER..AND POLK..SHOULD SEEK MORE SUBSTANTIAL SHELTER.

IT APPEARS THAT GALE FORCE WINDS WILL BEGIN TO AFFECT THE COAST FROM
SARASOTA NORTH TO HERNANDO COUNTY WITH 6 TO 8 HOURS. SINCE THE WINDS WILL
BE FROM A SOUTHERLY DIRECTION..WAVE ACTION AND HIGH TIDES WILL CAUSE
APPROACHES TO BRIDGES AND CAUSEWAYS TO BECOME IMPASSABLE FOR AUTOMOBILE
TRAFFIC WITHIN 8 TO 10 HOURS. THEREFORE...ALL TRAVEL SHOULD BE COMPLETED
IN THE NEXT FEW HOURS.

TIDES THIS MORNING WERE ABOUT TWO FEET ABOVE NORMAL..OR NEAR 3 FEET ABOVE
MEAN SEA LEVEL. WITH INCREASING SOUTHERLY WINDS TODAY AND THE NEXT HIGH
TIDE DURING MID AFTERNOON...TIDES WILL LIKELY BE 4 TO 5 FEET ABOVE MEAN
SEA LEVEL WITHIN 8 TO 10 HOURS.

INCREASING WAVE ACTION ALONG THE BEACHES WILL CAUSE EXTENSIVE EROSION
BEGINNING IN A FEW HOURS...AND ALSO CAUSE DANGEROUS RIPCURRENTS IN THE SURF.

REPEATING...THIS IS A VERY DANGEROUS HURRICANE AND ALL SAFETY PRECAUTIONS
SHOULD BE RUSHED TO COMPLETION WITH ALL POSSIBLE URGENCY.

STAY TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER RADIO FOR THE LATEST INFORMATION.

THE NEXT STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER SERVICE OFFICE
AT 7 PM THIS EVENING.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #13

CPA = 12 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 13
NATIONAL HURRICANE CENTER MIAMI, FL
6PM EDT THURS MAY 6, 1982

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, GALE WARNINGS CONTINUE WESTWARD TO PANAMA CITY AND SOUTHWARD TO KEY WEST. IN ADDITION, A HURRICANE WARNING IS NOW ISSUED FOR THE FLORIDA EAST COAST FROM JACKSONVILLE SOUTHWARD TO VERO BEACH. A DANGEROUS HURRICANE NOW THREATENS MOST OF WEST FLORIDA. SAFETY PRECAUTIONS SHOULD BE INITIATED WITH ALL POSSIBLE URGENCY IN THESE AREAS.

LANDFALL OF HURRICANE ISABEL IS EXPECTED BY 6AM TOMORROW MORNING ON THE WEST FLORIDA COAST AT OR SLIGHTLY NORTH OF TAMPA BAY.

COASTAL FLOODING COULD REACH 11-12 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ALL PREPAREDNESS OFFICIALS IN THE COASTAL COUNTIES FROM SAINT MARKS TO FT. MYERS HAVE BEEN URGED TO IMPLEMENT APPROPRIATE EVACUATION PLANS IMMEDIATELY. FOR DETAILED INFORMATION ON EVACUATION CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS.

A HURRICANE WATCH CONTINUES OUTSIDE THE AREA OF HURRICANE WARNING WESTWARD TO GRAND ISLE, LOUISIANA.

THERE IS A POSSIBILITY OF A FEW TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA THIS EVENING ASSOCIATED WITH RAIN SQUALLS WHICH ARE EXPECTED IN ADVANCE OF THE HURRICANE.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST.

AT 3PM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 27.1 NORTH LONGITUDE 86.3 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 15 MPH. LITTLE CHANGE IN THE SPEED AND DIRECTION OF THE STORM IS EXPECTED DURING THE NEXT 12 HOURS.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 125 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 950 MILLIBARS OR 28.06 INCHES.

REPEATING THE 6PM POSITION...LATITUDE 27.1 NORTH LONGITUDE 86.3 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 MIDNIGHT EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #7
CPA = 11 HOURS

BULLETIN
HURRICANE ISABEL..LOCAL STATEMENT NUMBER 7
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
ISSUED 7PM EDT THURS MAY 6 1982

...DANGEROUS HURRICANE ISABEL THREATENS MOST OF WEST FLORIDA...

THIS STATEMENT CONCERNS THE FOLLOWING FLORIDA COUNTIES...LEVY...CITRUS...
HERNANDO..PASCO..PINELLAS..HILLSBOROUGH..MANATEE..AND SARASOTA.
STATEMENTS ARE ALSO BEING ISSUED FOR OTHER FLORIDA COUNTIES BY WEATHER
SERVICE OFFICES AT FORT MYERS..TALLAHASSEE..APALACHICOLA..AND PENSACOLA.

HURRICANE WARNINGS WERE POSTED AT 6 AM THIS MORNING FROM SARASOTA NORTH
TO SAINT MARKS. THE CENTER OF ISABEL AT 6 AM WAS LOCATED ABOUT 180 MILES
SOUTHWEST OF THE TAMPA BAY AREA MOVING NORTHEAST AT ABOUT 15 MPH.
HURRICANE FORCE WINDS EXTEND OUT ABOUT 50 MILES IN THE EASTERN SEMICIRCLE..
AND GALE FORCE WINDS EXTEND OUT ABOUT 90 MILES.

PERSONS ALONG THE COASTLINE IN THE WARNING AREA SHOULD RUSH TO COMPLETION
ALL HURRICANE PREPARATIONS. FOR RESIDENTS OF SARASOTA..MANATEE..
PINELLAS..HILLSBOROUGH..AND PASCO COUNTIES..DETAILED EVACUATION
INFORMATION IS BEING ISSUED BY LOCAL OFFICIALS.

FOR RESIDENTS OF HERNANDO..CITRUS..AND LEVY COUNTIES..EVACUATION IS
RECOMMENDED GENERALLY ALONG AND TO THE WEST OF HIGHWAY U.S.19.
RESIDENTS SHOULD ALSO CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS.

ALL MOBILE HOME RESIDENTS IN THE WARNING AREA..AS WELL AS THOSE IN THE
INTERIOR COUNTIES OF SUMTER..AND POLK..SHOULD SEEK MORE SUBSTANTIAL SHELTER.

IT APPEARS THAT GALE FORCE WINDS WILL BEGIN TO AFFECT THE COAST FROM
SARASOTA NORTH TO HERNANDO COUNTY WITHIN 3 TO 5 HOURS. SINCE THE WINDS WILL
BE FROM A SOUTHERLY DIRECTION ..WAVE ACTION AND HIGH TIDES WILL CAUSE
APPROACHES TO BRIDGES AND CAUSEWAYS TO BECOME IMPASSABLE FOR AUTOMOBILE
TRAFFIC WITHIN 5 TO 7 HOURS. THEREFORE...ALL TRAVEL SHOULD BE COMPLETED IN
THE NEXT FEW HOURS.

TIDES THIS MORNING WERE ABOUT TWO FEET ABOVE NORMAL..OR NEAR 3 FEET ABOVE MEAN
SEA LEVEL. WITH INCREASING SOUTHERLY WINDS TODAY AND THE NEXT HIGH TIDE DURING
MID AFTERNOON..TIDES WILL LIKELY BE 4 TO 5 FEET ABOVE MEAN SEA LEVEL WITHIN
5 TO 7 HOURS.

INCREASING WAVE ACTION ALONG THE BEACHES IS ALREADY BEGINNING TO CAUSE SOME
EROSION ..AND ALSO BEGINNING TO CAUSE DANGEROUS RIPCURRENTS IN THE SURF.

REPEATING...THIS IS A VERY DANGEROUS HURRICANE AND ALL SAFETY PRECAUTIONS
SHOULD BE RUSHED TO COMPLETION WITH ALL POSSIBLE URGENCY.

STAYED TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER RADIO FOR THE LATEST INFORMATION.

THE NEXT STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER SERVICE OFFICE
AT 10 PM TONIGHT.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #14
CPA = 9 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 14
NATIONAL HURRICANE CENTER MIAMI, FL
9PM EDT THURS MAY 6, 1982

A DANGEROUS HURRICANE NOW THREATENS THE WEST COAST OF FLORIDA.

EFFECTS OF HURRICANE ISABEL ARE EXPECTED WITHIN 2 TO 3 HOURS ON THE WEST FLORIDA COAST AT OR SLIGHTLY NORTH OF TAMPA BAY.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, GALE WARNINGS CONTINUE WESTWARD TO PANAMA CITY AND SOUTHWARD TO KEY WEST.

COASTAL FLOODING COULD REACH 11-12 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ALL PREPAREDNESS OFFICIALS IN THE COASTAL COUNTIES FROM SAINT MARKS TO FT. MYERS HAVE BEEN URGED TO COMPLETE APPROPRIATE EVACUATION IMMEDIATELY. FOR DETAILED INFORMATION ON EVACUATION CONSULT THE LATEST STATEMENTS FROM LOCAL PUBLIC OFFICIALS.

TORNADOES SPAWNED BY HURRICANE ISABEL ASSOCIATED WITH RAIN SQUALLS WHICH ARE EXPECTED IN ADVANCE OF THE HURRICANE MAY BE EXPECTED IN WEST CENTRAL FLORIDA IMMEDIATELY.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST.

AT 9PM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 27.3 NORTH LONGITUDE 85.4 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 15 MPH.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 125 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 950 MILLIBARS OR 28.06 INCHES.

REPEATING THE 9PM POSITION...LATITUDE 27.3 NORTH LONGITUDE 85.4 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 MIDNIGHT EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

TAMPA BAY EOS

REAL TIME = MAY 6, 1982 - 4:40 p.m.
(EOS)

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #8
CPA = 8 HOURS

BULLETIN
HURRICANE ISABEL...LOCAL STATEMENT NUMBER 8
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
ISSUED 10 PM EDT THU MAY 6 1982

...HURRICANE CONDITIONS IN PARTS OF THE TAMPA BAY AREA...

THIS STATEMENT CONCERNS THE FOLLOWING FLORIDA COUNTIES...LEVY..CITRUS..
HERNANDO..PASCO..PINELLAS..HILLSBOROUGH..MANATEE..SARASOTA..SUMTER..AND
POLK. STATEMENTS ARE ALSO BEING ISSUED FOR OTHER FLORIDA COUNTIES BY
OTHER WEATHER SERVICE OFFICES.

HURRICANE WARNINGS CONTINUE FROM SAINT MARKS TO FORT MYERS ON THE WEST
COAST AND ALSO FOR PARTS OF THE FLORIDA EAST COAST.

ALL POSSIBLE SAFETY MEASURES SHOULD BE NEARING COMPLETION.

GALE FORCE WINDS ARE BEGINNING TO OCCUR ALONG THE COASTS OF PASCO AND
PINELLAS COUNTIES. THE CENTER OF ISABEL IS ABOUT 135 MILES WEST OF
CLEARWATER BEACH MOVING EAST NORTHEAST AT 15 MPH. THE CENTER OF THE HURRICANE
WILL LIKELY MOVE ONSHORE IN NORTHERN PINELLAS COUNTY IN THE NEXT 6 TO 8 HOURS..
AND HURRICANE FORCE WINDS WILL MOVE INLAND. HURRICANE FORCE WINDS EXTEND OUT
ABOUT 70 MILES TO THE SOUTH OF THE CENTER AND 50 MILES TO THE NORTH. GALES
EXTEND OUT ABOUT 135 MILES TO THE SOUTH AND 75 MILES TO THE NORTH.

TIDES WERE LAST REPORTED AT 4 TO 5 FEET ABOVE MEAN SEA LEVEL..BUT WILL
REACH SOME 11 TO 12 FEET ABOVE MEAN SEA LEVEL ALONG THE COASTLINE WHERE
THE CENTRAL PORTION OF THE HURRICANE MAKES LANDFALL. EVEN HIGHER SURGE
HEIGHTS ARE POSSIBLE IN THE BAYS AND INLETS.

WIND DRIVEN WAVES ARE REPORTED TO HAVE ALREADY BEGUN BREAKING OVER LOW-LYING
ROADWAYS ADJACENT TO THE GULF OF MEXICO ALONG THE WEST CENTRAL COAST.

ALL RESIDENTS SHOULD SEEK SHELTER IMMEDIATELY AND REMAIN IN SHELTER AS
TRAVEL WILL BEGIN TO BECOME IMPOSSIBLE IN THE NEXT HOUR OR TWO.

INTERMITTANT RAIN SQUALLS ARE BEGINNING TO ARRIVE AT THE COASTLINE AND
SEVERAL MORE INCHES OF RAIN ARE LIKELY IN THE NEXT FEW HOURS THROUGH
MUCH OF WEST CENTRAL FLORIDA.

ALL RESIDENTS SHOULD LISTEN TO EMERGENCY INFORMATION BEING ISSUED BY
LOCAL OFFICIALS.

STAY TUNED TO LOCAL RADIO ..TV..OR NOAA WEATHER RADIO FOR THE LATEST
INFORMATION.

THE NEXT LOCAL STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER SERVICE
OFFICE AT 1 AM THIS MORNING

EXERCISE***EXERCISE***EXERCISE

ADVISORY #15
CPA = 6 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 15
NATIONAL HURRICANE CENTER MIAMI, FL
12 MIDNIGHT EDT THURS MAY 6, 1982

A DANGEROUS HURRICANE IS NOW APPROACHING LANDFALL ON THE WEST COAST OF FLORIDA SLIGHTLY NORTH OF TAMPA BAY.

EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED WITH SIGNIFICANT SQUALLS AND SUSTAINED GALE FORCE WINDS.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, GALE WARNINGS CONTINUE WESTWARD TO PANAMA CITY AND SOUTHWARD TO KEY WEST.

THE WEATHER SERVICE ALSO ADVISES THAT THE HURRICANE WATCH EARLIER ISSUED FOR AN AREA OF COASTLINE FROM GRAND ISLE, LOUISIANA TO SAINT MARKS, FLORIDA HAS BEEN DISCONTINUED.

COASTAL FLOODING COULD REACH 11-12 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE TAMPA BAY AREA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST.

AT 12 MIDNIGHT EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 27.4 NORTH LONGITUDE 84.4 WEST. THE STORM IS MOVING TOWARD THE NORTHEAST AT ABOUT 15 MPH. LITTLE CHANGE IN THE SPEED AND DIRECTION OF THE STORM IS EXPECTED DURING THE NEXT 6 HOURS.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 125 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 950 MILLIBARS OR 28.06 INCHES.

REPEATING THE 12 MIDNIGHT POSITION...LATITUDE 27.4 NORTH LONGITUDE 84.4 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6AM EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #9
CPA = 5 HOURS

BULLETIN
HURRICANE ISABEL...LOCAL STATEMENT NUMBER 9
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
ISSUED 1 AM EDT FRI MAY 7 1982

...HURRICANE CONDITIONS IN PARTS OF THE TAMPA BAY AREA...

THIS STATEMENT CONCERNS THE FOLLOWING FLORIDA COUNTIES...LEVY..CITRUS..
HERNANDO..PASCO..PINELLAS..HILLSBOROUGH..MANATEE..SARASOTA..SUMTER..AND
POLK. STATEMENTS ARE ALSO BEING ISSUED FOR OTHER FLORIDA COUNTIES BY
OTHER WEATHER SERVICE OFFICES.

HURRICANE WARNINGS CONTINUE FROM SAINT MARKS TO FORT MYERS ON THE WEST
COAST AND ALSO FOR PARTS OF THE FLORIDA EAST COAST.

ALL POSSIBLE SAFETY MEASURES SHOULD ALREADY HAVE BEEN COMPLETED.

SUSTAINED GALE FORCE WINDS ARE OCCURRING ALONG THE COASTS OF PASCO AND
PINELLAS COUNTIES. THE CENTER OF ISABEL IS ABOUT 75 MILES WEST OF CLEARWATER
BEACH MOVING EAST NORTHEAST AT 15 MPH. THE CENTER OF THE HURRICANE WILL
LIKELY MOVE ONSHORE IN NORTHERN PINELLAS COUNTY IN THE NEXT FEW HOURS..AND
HURRICANE FORCE WINDS WILL MOVE INLAND. HURRICANE FORCE WINDS EXTEND OUT
ABOUT 70 MILES TO THE SOUTH OF THE CENTER AND 50 MILES TO THE NORTH. GALES
EXTEND OUT ABOUT 125 MILES TO THE SOUTH AND 75 MILES TO THE NORTH.

TIDES WERE LAST REPORTED AT 5 TO 6 FEET ABOVE MEAN SEA LEVEL..BUT WILL REACH
SOME 11 TO 12 FEET ABOVE MEAN SEA LEVEL ALONG THE COASTLINE WHERE THE
CENTRAL PORTION OF THE HURRICANE MAKES LANDFALL. EVEN HIGHER SURGE HEIGHTS
ARE POSSIBLE IN THE BAYS AND INLETS.

STRONG WIND DRIVEN WAVE ACTION IS REPORTED TO HAVE ALREADY PARTIALLY
INUNDATED SOME OF THE ROADWAYS IMMEDIATELY ADJACENT TO THE GULF OF MEXICO
ALONG THE WEST CENTRAL COAST.

ALL RESIDENTS SHOULD REMAIN IN SHELTER AS TRAVEL HAS BECOME VIRTUALLY
IMPOSSIBLE.

HEAVY RAINS ARE BEGINNING TO CAUSE STREET FLOODING AND SEVERAL MORE INCHES
OF RAIN ARE LIKELY IN THE NEXT FEW HOURS THROUGH MUCH OF WEST CENTRAL FLORIDA.

ALL RESIDENTS SHOULD LISTEN TO EMERGENCY INFORMATION BEING ISSUED BY LOCAL
OFFICIALS.

STAY TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER RADIO FOR THE LATEST INFORMATION.

THE NEXT LOCAL STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER SERVICE
OFFICE AT 4 AM THIS MORNING.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #15
CPA = 6 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 15
NATIONAL HURRICANE CENTER MIAMI, FL
12 MIDNIGHT EDT THURS MAY 6, 1982

A DANGEROUS HURRICANE IS NOW APPROACHING LANDFALL ON THE WEST COAST OF FLORIDA SLIGHTLY NORTH OF TAMPA BAY.

EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED WITH SIGNIFICANT SQUALLS AND SUSTAINED GALE FORCE WINDS.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, GALE WARNINGS CONTINUE WESTWARD TO PANAMA CITY AND SOUTHWARD TO KEY WEST.

COASTAL FLOODING COULD REACH 11-12 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE TAMPA BAY AREA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST.

AT 12PM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 27.4 NORTH LONGITUDE 84.4 WEST. THE STORM IS MOVING TOWARD THE NORTHEAST AT ABOUT 15 MPH. LITTLE CHANGE IN THE SPEED AND DIRECTION OF THE STORM IS EXPECTED DURING THE NEXT 6 HOURS.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 125 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 950 MILLIBARS OR 28.06 INCHES.

REPEATING THE 12 MIDNIGHT POSITION...LATITUDE 27.4 NORTH LONGITUDE 84.4 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6AM EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #16
CPA = 3 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 16
NATIONAL HURRICANE CENTER MIAMI, FL
3AM EDT FRIDAY MAY 7, 1982

A DANGEROUS HURRICANE IS ABOUT TO MAKE LANDFALL ON THE WEST COAST OF FLORIDA SLIGHTLY NORTH OF TAMPA BAY.

THE MAJOR EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED WITH SIGNIFICANT SQUALLS AND SUSTAINED HURRICANE FORCE WINDS.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, GALE WARNINGS CONTINUE WESTWARD TO PANAMA CITY AND SOUTHWARD TO KEY WEST.

COASTAL FLOODING COULD REACH 11-12 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE TAMPA BAY AREA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST.

AT 3AM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED AT ABOUT LATITUDE 27.7 NORTH LONGITUDE 83.6 WEST. THE STORM IS MOVING TOWARD THE NORTHEAST AT ABOUT 15 MPH.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 125 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 950 MILLIBARS OR 28.06 INCHES.

REPEATING THE 3AM POSITION...LATITUDE 27.7 NORTH LONGITUDE 83.6 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6AM EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE...EXERCISE...EXERCISE

LOCAL STATEMENT #10

CPA = 2 HOURS

BULLETIN

HURRICANE ISABEL..LOCAL STATEMENT NUMBER 10
NATIONAL WEATHER SERVICE TAMPA BAY AREA RUSKIN FL
ISSUED 4 AM EDT FRI MAY 7 1982

...HURRICANE CONDITIONS IN PARTS OF THE TAMPA BAY AREA...

THIS STATEMENT CONCERNS THE FOLLOWING FLORIDA COUNTIES...LEVY..CITRUS..
HERNANDO..PASCO..PINELLAS..HILLSBOROUGH..MANATEE..SARASOTA..SUMTER..AND
POLK. STATEMENTS ARE ALSO BEING ISSUED FOR OTHER FLORIDA COUNTIES BY
OTHER WEATHER SERVICE OFFICES.

HURRICANE WARNINGS CONTINUE FROM SAINT MARKS TO FORT MYERS ON THE WEST
COAST AND ALSO FOR PARTS OF THE FLORIDA EAST COAST.

ALL POSSIBLE SAFETY MEASURES SHOULD ALREADY HAVE BEEN COMPLETED.

SUSTAINED HURRICANE FORCE WINDS ARE OCCURRING ALONG THE COASTS OF PASCO AND
PINELLAS COUNTIES. THE CENTER OF ISABEL IS ABOUT 35 MILES WEST OF CLEARWATER
BEACH MOVING EAST NORTHEAST AT 15 MPH. THE CENTER OF THE HURRICANE WILL
LIKELY MOVE ONSHORE IN NORTHERN PINELLAS COUNTY IN THE NEXT COUPLE OF HOURS...
AND HURRICANE FORCE WINDS WILL MOVE INLAND. HURRICANE FORCE WINDS EXTEND
OUT ABOUT 70 MILES TO THE SOUTH OF THE CENTER AND 50 MILES TO THE NORTH.
GALES EXTEND OUT ABOUT 125 MILES TO THE SOUTH AND 75 MILES TO THE NORTH.

TIDES WERE LAST REPORTED AT 6 TO 7 FEET ABOVE MEAN SEA LEVEL..BUT WILL
REACH SOME 11 TO 12 FEET ABOVE MEAN SEA LEVEL ALONG THE COASTLINE WHERE
THE CENTRAL PORTION OF THE HURRICANE MAKES LANDFALL. EVEN HIGHER SURGE
HEIGHTS ARE POSSIBLE IN THE BAYS AND INLETS.

TREMENDOUS WIND DRIVEN WAVE ACTION IS REPORTED TO HAVE ALREADY INUNDATED
MOST OF THE BARRIER ISLANDS ALONG THE WEST CENTRAL COAST.

ALL RESIDENTS SHOULD REMAIN IN SHELTER AS TRAVEL HAS BECOME IMPOSSIBLE.
ALSO..NUMEROUS REPORTS HAVE BEEN RECEIVED OF ROADS BEING BLOCKED BY
FALLEN TREES AND POWER LINES.

THE VERY HEAVY RAINS HAVE CAUSED MUCH STREET FLOODING AND SEVERAL MORE
INCHES OF RAIN ARE LIKELY IN THE NEXT FEW HOURS THROUGH MUCH OF WEST
CENTRAL FLORIDA.

NUMEROUS SHORT-LIVED TORNADOES ARE OCCURING IN THE AREA FROM HERNANDO
COUNTY SOUTH TO SARASOTA AND INLAND INTO SUMTER AND POLK COUNTIES.

ALL RESIDENTS SHOULD LISTEN TO EMERGENCY INFORMATION BEING ISSUED BY
LOCAL OFFICIALS.

STAY TUNED TO LOCAL RADIO..TV..OR NOAA WEATHER RADIO FOR THE LATEST INFORMATION.

THE NEXT LOCAL STATEMENT WILL BE ISSUED BY THE TAMPA BAY AREA WEATHER
SERVICE OFFICE AT 7 AM THIS MORNING.

TAMPA BAY EOS

REAL TIME = MAY 10, 1982 - 11:00 A.M.
(POST-EOS)

EXERCISE***EXERCISE***EXERCISE

ADVISORY #17

CPA = 0 (Landfall) HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 17

NATIONAL HURRICANE CENTER MIAMI, FL

6AM EDT FRIDAY MAY 7, 1982

A DANGEROUS HURRICANE IS NOW MAKING LANDFALL ON THE WEST COAST OF FLORIDA NORTH OF TAMPA BAY, JUST NORTH OF CALADESI ISLAND OFF THE COAST OF NORTHERN PINELLAS COUNTY.

SEVERE EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED WITH TORRENTIAL RAINFALL, SUSTAINED HURRICANE FORCE WINDS, AND DESTRUCTIVE OVERLAND STORM SURGE.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, GALE WARNINGS CONTINUE WESTWARD TO PANAMA CITY AND SOUTHWARD TO KEY WEST.

COASTAL FLOODING COULD REACH 11-12 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE TAMPA BAY AREA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST.

AT 6AM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED APPROXIMATELY 30 MILES WEST OF CALADESI ISLAND AT ABOUT LATITUDE 28.1 NORTH LONGITUDE 82.8 WEST. THE STORM IS MOVING TOWARD THE NORTHEAST AT ABOUT 15 MPH.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 120 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 950 MILLIBARS OR 28.06 INCHES.

REPEATING THE 6AM POSITION...LATITUDE 28.1 NORTH LONGITUDE 82.8 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 NOON EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #18
CPA = +3 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 18
NATIONAL HURRICANE CENTER MIAMI, FL
9AM EDT FRIDAY MAY 7, 1982

A DANGEROUS HURRICANE HAS MADE LANDFALL ON THE WEST COAST OF FLORIDA
NORTH OF TAMPA BAY, OVER CALADESI ISLAND.

THE MAJOR EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED THROUGHOUT THE
TAMPA BAY AREA WITH SIGNIFICANT SQUALLS AND SUSTAINED HURRICANE FORCE WINDS.
THE EYE OF THE HURRICANE HAS PASSED OVER THE NORTHERN PORTION OF LAKE TARPON
JUST SOUTH OF THE CITY OF TARPON SPRINGS, FLORIDA.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE WEST
COAST OF FLORIDA FROM SAINT MARKS SOUTHWARD TO FT. MYERS. IN ADDITION, THE
WARNING HAS BEEN EXTENDED TO INCLUDE THE INLAND COUNTIES OF MARION, SUMTER,
POLK, LAKE, ORANGE, OSCEOLA AND SEMINOLE AND THE EAST COAST COUNTIES OF
VOLUSIA AND BREVARD.

COASTAL FLOODING WILL REACH 11-12 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN
AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN
BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE
STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL IN WEST CENTRAL FLORIDA ASSOCIATED WITH
RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE TAMPA BAY AREA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST FLORIDA COAST.

AT 9AM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED APPROXIMATELY 10 MILES
WEST OF ZEPHYRHILLS, FLORIDA. AT ABOUT LATITUDE 28.2 NORTH LONGITUDE 82.3
WEST. THE STORM HAS SLOWED TO A FORWARD SPEED OF 10 MPH MOVING TOWARD THE
EAST-NORTHEAST.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 115 MPH BRIEFLY HIGHER IN GUSTS NEAR
THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH
FROM THE CENTER. THE STORM IS EXPECTED TO REMAIN ABOUT THE SAME INTENSITY
DURING THE NEXT 12 HOURS. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 950
MILLIBARS OR 28.06 INCHES.

REPEATING THE 9AM POSITION...LATITUDE 28.2 NORTH LONGITUDE 82.3 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL
HURRICANE CENTER IN MIAMI AT 12 NOON EDT. INTERMEDIATE BULLETINS WILL BE
ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #19
CPA = +6 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 19
NATIONAL HURRICANE CENTER MIAMI, FL
12:00 NOON EDT FRIDAY MAY 7, 1982

A DANGEROUS HURRICANE HAS MADE LANDFALL ON THE WEST COAST OF FLORIDA NORTH OF TAMPA BAY AND IS CURRENTLY PASSING THROUGH THE CENTRAL PORTION OF THE FLORIDA PENINSULA.

THE MAJOR EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED THROUGHOUT THE CENTRAL PORTION OF THE FLORIDA PENINSULA WITH SIGNIFICANT SQUALLS AND SUSTAINED HURRICANE FORCE WINDS.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE INLAND FLORIDA COUNTIES OF MARION, SUMTER, POLK, LAKE, ORANGE, OSCEOLA AND SEMINOLE AND THE EAST COAST COUNTIES OF VOLUSIA AND BREVARD. IN ADDITION, GALE WARNINGS CONTINUE NORTHWARD ON THE WEST COAST TO APALACHICOLA AND ON THE EAST COAST TO JACKSONVILLE AND SOUTHWARD TO KEY WEST.

COASTAL FLOODING COULD REACH 11-12 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE CENTRAL FLORIDA PENINSULA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST AND EAST COASTS OF THE FLORIDA PENINSULA.

AT 12 NOON EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED APPROXIMATELY 30 MILES SOUTHWEST OF ORLANDO AT ABOUT LATITUDE 28.3 NORTH LONGITUDE 81.8 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 10 MPH.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 115 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 955 MILLIBARS OR 28.20 INCHES.

REPEATING THE 12 NOON POSITION...LATITUDE 28.3 NORTH LONGITUDE 81.8 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6PM EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #20
CPA = +9 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 20
NATIONAL HURRICANE CENTER MIAMI, FL
3PM EDT FRIDAY MAY 7, 1982

A DANGEROUS HURRICANE HAS MADE LANDFALL ON THE WEST COAST OF FLORIDA NORTH OF TAMPA BAY AND IS CURRENTLY PASSING THROUGH THE CENTRAL PORTION OF THE FLORIDA PENINSULA. HURRICANE ISABEL IS EXPECTED TO EXIT THE EAST COAST OF FLORIDA WITH THE CENTER OF THE STORM PASSING OVER TITUSVILLE, FLORIDA WITHIN 4 TO 5 HOURS.

THE MAJOR EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED THROUGHOUT THE CENTRAL PORTION OF THE FLORIDA PENINSULA WITH SIGNIFICANT SQUALLS AND SUSTAINED HURRICANE FORCE WINDS. SIGNIFICANT OVERLAND STORM SURGE FLOODING CAN ALSO BE EXPECTED THROUGHOUT THE COUNTIES OF VOLUSIA AND BREVARD.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE INLAND FLORIDA COUNTIES OF MARION, SUMTER, POLK, LAKE, ORANGE, OSCEOLA AND SEMINOLE AND THE EAST COAST COUNTIES OF VOLUSIA AND BREVARD. IN ADDITION, GALE WARNINGS CONTINUE NORTHWARD ON THE WEST COAST TO APALACHICOLA AND ON THE EAST COAST TO JACKSONVILLE AND SOUTHWARD TO KEY WEST.

FLOODING ON THE EAST COAST COULD REACH 8-9 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS WARNING WITH EVEN HIGHER SURGE HEIGHTS POSSIBLE WITHIN BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE CENTRAL AND EAST CENTRAL FLORIDA PENINSULA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST AND EAST COASTS OF THE FLORIDA PENINSULA.

AT 3PM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED APPROXIMATELY 5 MILES SOUTH OF ORLANDO AT ABOUT LATITUDE 28.5 NORTH LONGITUDE 81.4 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 10 MPH.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 110 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 960 MILLIBARS OR 28.35 INCHES.

REPEATING THE 3PM POSITION...LATITUDE 28.5 NORTH LONGITUDE 81.4 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6PM EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #21
CPA = +12 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 21
NATIONAL HURRICANE CENTER MIAMI, FL
6PM EDT FRIDAY MAY 7, 1982

HURRICANE ISABEL IS CURRENTLY EXITING THE EAST COAST OF FLORIDA WITH THE CENTER OF THE STORM PASSING OVER TITUSVILLE, FLORIDA.

THE MAJOR EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED THROUGHOUT THE CENTRAL PORTION OF THE FLORIDA PENINSULA AND FLORIDA EAST COAST WITH SIGNIFICANT SQUALLS AND SUSTAINED HURRICANE FORCE WINDS. SIGNIFICANT OVERLAND STORM SURGE FLOODING IS ALSO OCCURRING THROUGHOUT THE COUNTIES OF VOLUSIA AND BREVARD.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE FLORIDA EAST COAST COUNTIES OF VOLUSIA AND BREVARD. IN ADDITION, GALE WARNINGS CONTINUE NORTHWARD ON THE WEST COAST TO APALACHICOLA AND ON THE EAST COAST TO JACKSONVILLE AND SOUTHWARD TO KEY WEST.

FLOODING ON THE EAST COAST IS REPORTED 7-8 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN AREAS COVERED BY THIS HURRICANE WARNING WITH EVEN HIGHER SURGE HEIGHTS REPORTED WITHIN BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE CENTRAL AND EAST CENTRAL FLORIDA PENINSULA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE WEST AND EAST COASTS OF THE FLORIDA PENINSULA.

AT 6PM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED APPROXIMATELY 5 MILES SOUTHWEST OF TITUSVILLE AT ABOUT LATITUDE 28.6 NORTH LONGITUDE 80.9 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 10 MPH.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 105 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 965 MILLIBARS OR 28.50 INCHES.

REPEATING THE 6PM POSITION...LATITUDE 28.6 NORTH LONGITUDE 80.9 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 MIDNIGHT EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

EXERCISE***EXERCISE***EXERCISE

ADVISORY #22
CPA = +15 HOURS

BULLETIN

HURRICANE ISABEL - ADVISORY NUMBER 22
NATIONAL HURRICANE CENTER MIAMI, FL
9PM EDT FRIDAY MAY 7, 1982

HURRICANE ISABEL IS CONTINUING TO EXIT THE EAST COAST OF FLORIDA. THE CENTER OF THE STORM PASSED OVER TITUSVILLE, FLORIDA EARLIER THIS EVENING AND IS NOW APPROXIMATELY 40 MILES OFF THE COAST AND MOVING FURTHER OUT INTO THE ATLANTIC OCEAN.

EFFECTS OF HURRICANE ISABEL ARE NOW BEING EXPERIENCED THROUGHOUT THE FLORIDA COUNTIES OF VOLUSIA AND BREVARD WITH SIGNIFICANT SQUALLS, SUSTAINED HURRICANE FORCE WINDS AND OVERLAND STORM SURGE FLOODING.

THE WEATHER SERVICE ADVISES THAT A HURRICANE WARNING CONTINUES FOR THE FLORIDA EAST COAST COUNTIES OF VOLUSIA AND BREVARD. IN ADDITION, GALE WARNINGS CONTINUE NORTHWARD ON THE EAST COAST TO JACKSONVILLE AND SOUTHWARD TO KEY WEST.

FLOODING ON THE EAST COAST EARLIER HAS BEEN REPORTED 7-8 FEET ABOVE NORMAL AT THE OPEN COASTLINE IN VOLUSIA AND BREVARD COUNTIES WITH EVEN HIGHER SURGE HEIGHTS REPORTED WITHIN BAYS AND INLETS.

ANY PREPAREDNESS MEASURES NOT REQUIRING EXPOSURE TO THE OUTDOOR HAZARDS OF THE STORM SHOULD BE COMPLETED IMMEDIATELY.

TORNADOES SPAWNED BY HURRICANE ISABEL ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE EAST CENTRAL FLORIDA PENINSULA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE EAST COAST OF THE FLORIDA PENINSULA.

AT 9PM EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED OVER THE ATLANTIC OCEAN APPROXIMATELY 25 MILES NORTHEAST OF TITUSVILLE, FLORIDA AT ABOUT LATITUDE 28.7 NORTH LONGITUDE 80.4 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 10 MPH.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 100 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 970 MILLIBARS OR 28.65 INCHES.

REPEATING THE 9PM POSITION...LATITUDE 28.7 NORTH LONGITUDE 80.4 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 12 MIDNIGHT EDT. INTERMEDIATE BULLETINS WILL BE ISSUED FROM THIS OFFICE AT 3 HOUR INTERVALS.

TAMPA BAY EOS

REAL TIME = MAY 10, 1982 - 5:00 P.M.
(POST-EOS)

EXERCISE***EXERCISE***EXERCISE

ADVISORY #23
CPA = +18 HOURS

BULLETIN
HURRICANE ISABEL - ADVISORY NUMBER 23
NATIONAL HURRICANE CENTER MIAMI, FL
12 MIDNIGHT EDT FRIDAY MAY 7, 1982

HURRICANE ISABEL HAS EXITED THE EAST COAST OF FLORIDA. THE CENTER OF THE STORM PASSED OVER TITUSVILLE, FLORIDA EARLIER THIS EVENING AND IS NOW APPROXIMATELY 80 MILES OFF THE COAST AND MOVING FURTHER OUT INTO THE ATLANTIC OCEAN.

SOME EFFECTS OF HURRICANE ISABEL ARE STILL BEING EXPERIENCED THROUGHOUT THE FLORIDA COUNTIES OF VOLUSIA AND BREVARD WITH INTERMITTENT RAINFALL AND SUSTAINED GALE FORCE WINDS.

THE WEATHER SERVICE ADVISES THAT A GALE WARNING CONTINUES FOR THE FLORIDA EAST COAST COUNTIES OF VOLUSIA AND BREVARD.

TORNADOES SPAWNED BY HURRICANE ISABEL ASSOCIATED WITH RAIN SQUALLS HAVE BEEN RECENTLY REPORTED THROUGHOUT THE EAST CENTRAL FLORIDA PENINSULA.

ALL MARINE CRAFT SHOULD REMAIN IN PORT ALL ALONG THE EAST COAST OF THE FLORIDA PENINSULA.

AT 12 MIDNIGHT EDT THE CENTER OF HURRICANE ISABEL WAS ESTIMATED OVER THE ATLANTIC OCEAN APPROXIMATELY 55 MILES NORTHEAST OF TITUSVILLE, FLORIDA AT ABOUT LATITUDE 28.9 NORTH LONGITUDE 80.0 WEST. THE STORM IS MOVING TOWARD THE EAST-NORTHEAST AT ABOUT 10 MPH.

MAXIMUM SUSTAINED WINDS ARE ESTIMATED AT 100 MPH BRIEFLY HIGHER IN GUSTS NEAR THE CENTER. HIGHEST WINDS CONTINUE TO EXTEND 15 MILES TO THE EAST AND SOUTH FROM THE CENTER. THE LOWEST PRESSURE IN THIS MAJOR HURRICANE IS 975 MILLIBARS OR 28.79 INCHES.

REPEATING THE 12 MIDNIGHT POSITION...LATITUDE 28.9 NORTH LONGITUDE 80.0 WEST.

THE NEXT REGULAR ADVISORY ON HURRICANE ISABEL WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER IN MIAMI AT 6AM EDT.

APPENDIX B

EOS EXERCISE TIME SCHEDULE

EOS EXERCISE TIME SCHEDULE

PHASE	DATE	REAL TIME	SIMULATION CPA	NWS ADVISORIES*	NHC SLOSH RUNS
Pre-EOS	May 4 (Tues.)	6:00 a.m.	72	72	
		12:00 Noon	66	66	
		6:00 p.m.	60	60	
		12:00 mid.	54	54	
	May 5 (Weds.)	6:00 a.m.	48	48	48
		12:00 Noon	42	42	
		6:00 p.m.	36	36	
		12:00 mid.	30	30	
EOS	May 6 (Thurs.)	9:00 a.m.	24	24	24
		10:00 a.m.	23		
		11:00 a.m.	22		
		12:00 Noon	21	21	
		1:00 p.m.	20		
		2:00 p.m.	19		
		3:00 p.m.	18	18	
		3:10 p.m.	17		
		3:20 p.m.	16		
		3:30 p.m.	15	15	
		3:40 p.m.	14		
		3:50 p.m.	13		
		4:00 p.m.	12	12	
		4:10 p.m.	11		
		4:20 p.m.	10		
		4:30 p.m.	9	9	
		4:40 p.m.	8		
		4:50 p.m.	7		
		5:00 p.m.	6	6	
Post-EOS	May 6 (Thurs.)	6:00 p.m.	5		
			4		
			3	3	
			2		
		11:00 p.m.	1 CPA	CPA	

*NWS Advisories will provide the basis for and can be referenced in the Tampa Bay Region EOS Scenario

The EOS project will be based on 72 hours of hurricane approach time.

The EOS itself will be conducted on Thursday, May 6, 1982 from 9:00 a.m. to 5:00 p.m.

- Pre-EOS Phase - A 48-hour real time phase beginning at 6:00 a.m. Tuesday, May 4 (CPA-72) and extending until the beginning of the EOS at 9:00 a.m. Thursday, May 6 (CPA-24). Local government operations simulations are optional during this phase.

NOTE: As an administrative break for EOC preparation, there will be a three-hour real time loss prior to the beginning of the EOS at 9:00 a.m. Thursday, May 6.

- Emergency Operations Simulation (EOS) - The eight-hour real time simulation of 18 hours of approach beginning at 9:00 a.m. Thursday, May 6 (CPA-24) and extending until 5:00 p.m. Thursday May 6 (CPA-6). Real time will parallel simulation time from 9:00 a.m. (CPA-24) until 3:00 p.m. (CPA-18). From 3:00 p.m. (CPA-18) until 5:00 p.m. (CPA-6), 12 hours simulation time will be compressed to two hours real time. Counties will exercise the scenario identification process, related decision-making, and other optional emergency operations.
- Post-EOS Phase - An open-ended real time phase beginning at the conclusion of the EOS at 5:00 p.m. Thursday, May 6 (CPA-6) and extending through CPA. This phase is primarily for state recovery emergency simulation. Local government operations simulations are optional during this phase.

APPENDIX C

POST-EOS TIME SCHEDULE

POST-EOS RE-ENTRY TIME SCHEDULE

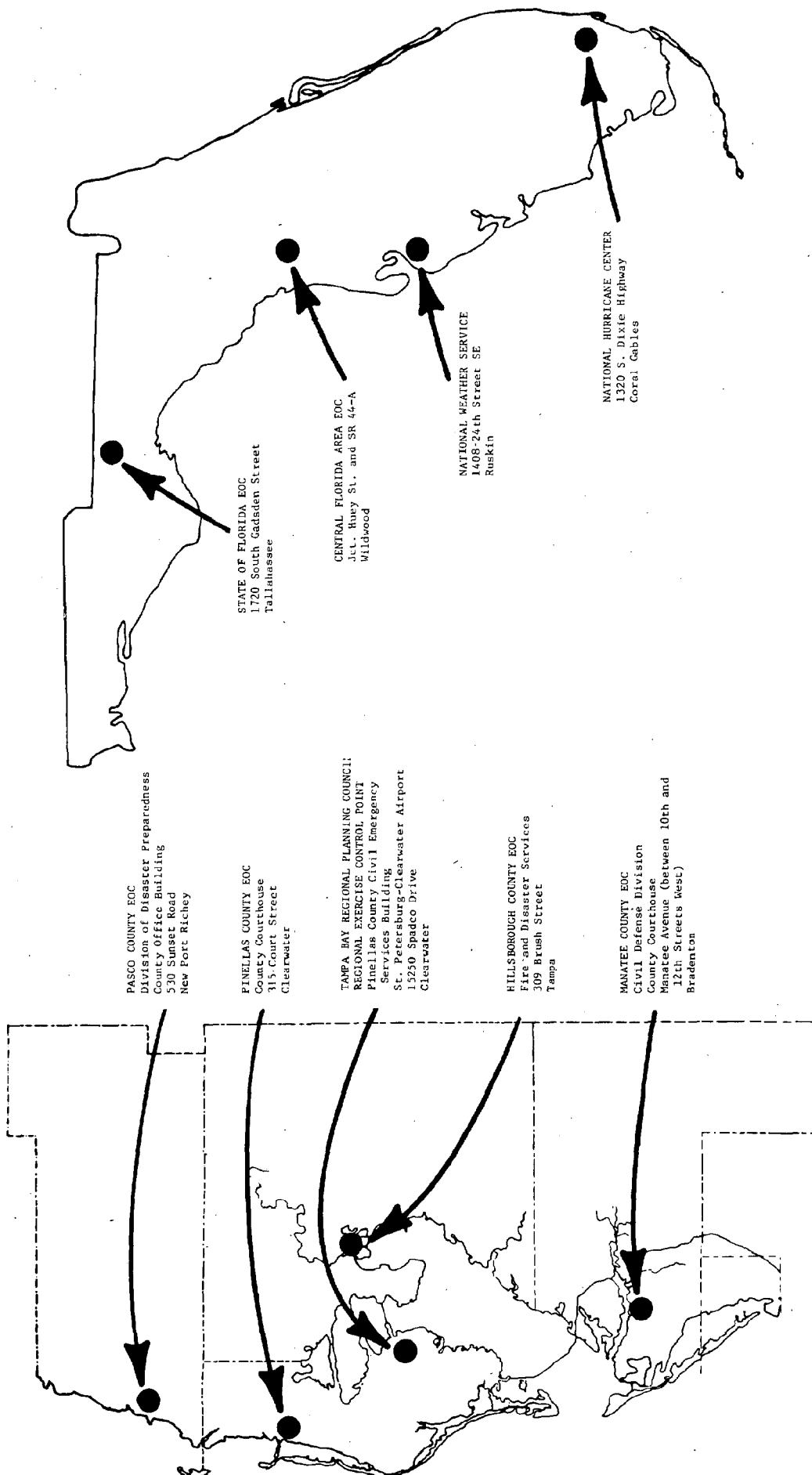
PHASE	DATE	REAL TIME	SIMULATION CPA	NWS ADVISORIES
POST-EOS	May 10 (Mon)	9:00 a.m.	6	6
		10:00 a.m.	3	3
		11:00 a.m.	CPA	CPA
		12:00 NOON	+3	+3
		1:00 p.m.	+6	+6
		2:00 p.m.	+9	+9
		3:00 p.m.	+12	+12
		4:00 p.m.	+15	+15
		5:00 p.m.	+18	+18

The Post-EOS phase will pick up the exercise scenario on Monday, May 10th at the point the Thursday, May 6th EOS terminates. This phase is primarily for state recovery emergency simulation in the Tampa Bay Region and continued warning/alert preparations and response in other county areas. Local play will be limited to the submission of Flash Reports and Situation Reports from County Disaster Preparedness Offices. Local EOCs will not be activated.

APPENDIX D

EMERGENCY OPERATING CENTER (EOC) LOCATIONS

**TAMPA BAY REGION HURRICANE EVACUATION EXERCISE
EMERGENCY OPERATING CENTER (EOC) LOCATIONS**



APPENDIX E

HILLSBOROUGH COUNTY OPERATIONS SCENARIO

HILLSBOROUGH OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
1	Sheriff's Office	EOC	Tornado reported near Dale Mabry/W. Hillsborough Avenue with heavy casualties.	6/6:00 a.m.	24	Hillsborough Controller	6/9:00 a.m.
2	Tampa Police Department	EOC	Truck carrying hazardous chemicals overturned on Crosstown Expressway at Brush Street overpass. Requires 30 minutes evacuation within 1,000 feet.	6/6:30 a.m.	23:30	Hillsborough Controller	6/9:30 a.m.
3	Nursing Homes	EOC	Directors of Canterbury Towers and Manhattan Nursing Homes request early evacuation from hazard area.	6/7:00 a.m.	23	Hillsborough Controller	6/10:00 a.m.
4	EOC	TBRPC Monitor	Evacuation scenario ID report #1.	6/7:00 a.m.	23	EOC	6/10:00 a.m.
5	EOC	TBRPC Monitor	Evacuation Scenario ID Report #2.	6/9:00 a.m.	21	EOC	6/12:00 noon
6	Coast Guard	EOC	Large merchant vessel aground at Port Sutton Channel entrance.	6/9:30 a.m.	20:30	Hillsborough Controller	6/12:30 p.m.
7	FBDP	EOC	Florida State Bureau of Disaster Preparedness requests status of hurricane preparation	6/9:45 a.m.	20:15	Hillsborough Controller	6/12:45 p.m.
8	Sheriff's Office	EOC	Tree and electric wires down blocking Sheldon Road just south of Waters Avenue.	6:9:45 a.m.	20:15	Hillsborough Controller	6/12:45 p.m.
9	Red Cross	EOC	Stores completely sold out of emergency supplies. Many area residents panicked. Crowd control may be necessary.	6/10:00 a.m.	20	Hillsborough Controllers	6/1:00 p.m.
10	Tampa Police	EOC	Traffic backed up on Crosstown Expressway. Toll booth attendant refuses to let evacuees through without paying toll.	6/10:00 a.m.	18	Hillsborough Controller	6/1:00 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED		INPUT BY	LOCAL	
				TIME	CPA		DATE/TIME	DATE/TIME
11	Local EOC		Telephone service to MacDill AFB inoperative.	6/10:00 p.m.	20	Hillsborough Controller	6/1:00 p.m.	
12	EOC	Pinellas EOC	Request status of evacuation planning (unless provided earlier).	6/10:00 a.m.	20	Hillsborough Controller	6/1:00 p.m.	
13	EMS	EOC	EMS radio transmitter inoperative due to lightning strike.	6/10:00 a.m.	20	Hillsborough Controller	6/1:00 p.m.	
14	FAA	EOC	Report of overdue aircraft on flight from Sarasota/Bradenton to Zephyrhills.	6/10:00 a.m.	20	Hillsborough Controller	6/1:00 p.m.	
15	Tampa Fire Department	EOC	Electrical power failure at Tampa Fire Department Dispatch Center.	6/10:30 a.m.	19:30	Hillsborough Controller	6/1:30 p.m.	
16	Highway Patrol	EOC	Twenty car chain reaction wreck at interchange area of I-275 North and I-4, eastbound lanes.	6/10:30 a.m.	19:30	Hillsborough Controller	6/1:30 p.m.	
17	EMS	EOC	EMS radio transmitter returned to operational status.	6/10:45 a.m.	19:15	Hillsborough Controller	6/1:45 p.m.	
18	Sheriff's Office	EOC	Gas main ruptured and on fire - corner West Hillsborough/Town & Country Boulevard.	6/11:00 a.m.	19	Hillsborough Controller	6/2:00 p.m.	
19	Local EOC		Electrical power failure at Hillsborough County EOC.	6/11:00 a.m.	19	Hillsborough Controller	6/2:00 p.m.	
20	WFLA-TV	EOC	Residents of mobile home park on South Bayshore Drive refuse to evacuate.	6/11:00 a.m.	19	Hillsborough Controller	6/2:00 p.m.	
21	Local EOC		Telephone service to MacDill AFB restored.	6/11:00 p.m.	19	Hillsborough Controller	6/2:00 p.m.	
22	EOC	TBRPC Monitor	Evacuation Scenario ID Report #3.	6/11:00 a.m.	19	EOC	6/2:00 p.m.	
23	Health Department	EOC	Report that Tampa Water Supply is contaminated.	6/11:20 a.m.	18:40	Hillsborough Controller	6/2:20 p.m.	

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
24	U.S. Customs	EOC	Forty foot boat sinking, one-half mile east of Egmont Key. Five persons on board. Boat suspected of hauling marijuana.	6/11:30 a.m.	18:30	Hillsborough Controller	6/2:30 p.m.
25	Tampa General	EOC	Electrical power and water failure at Tampa General Hospital.	6/11:30 a.m.	18:30	Hillsborough Controller	6/2:30 p.m.
26	Local EOC		Electrical power restored at Hillsborough County EOC.	6/11:30 a.m.	18:30	Hillsborough Controller	6/2:30 p.m.
27	Tampa Fire Department	EOC	Electrical power restored at Tampa Fire Department Dispatch Center.	6/11:30 a.m.	18:30	Hillsborough Controller	6/2:30 p.m.
28	MacDill AFB	EOC	One-half mile long convoy of government vehicles will depart MacDill for Oakgrove School recovery area in one hour.	6/11:45 a.m.	18:15	Hillsborough Controller	6/2:45 p.m.
29	Sheriff's Office	EOC	Large hotel on east side of Courtney Campbell Causeway advertising hurricane party with reduced prices. Customers arriving.	6/12:00 Noon	18	Hillsborough Controller	6/3:00 p.m.
30	Local EOC		Commercial telephone to WSUN and WFLA EBS inoperative.	6/12:00 Noon	18	Hillsborough Controller	6/3:00 p.m.
31	Sheriff's Office	EOC	Fire at county jail requires evacuation/relocation of inmates.	6/12:00 Noon	18	Hillsborough Controller	6/3:00 p.m.
32	EOC	TBRPC Monitor	Evacuation Scenario ID Report #4.	6/12:00 Noon	18	EOC	6/3:00 p.m.
33	Citizen	EOC	Home dialysis patient requests transportation to shelter.	6/1:00 p.m.	17	Hillsborough Controller	6/3:10 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
34	Tampa General	EOC	Electrical power and water restored at Tampa General Hospital.	6/1:00 p.m.	17	Hillsborough Controller	6/3:10 p.m.
35	Tampa Police	EOC	Traffic lights on Dale Mabry inoperative from Henderson to Waters.	6/2:00 p.m.	16	Hillsborough Controller	6/3:20 p.m.
36	Shelter Chief	EOC	Several intoxicated persons creating disturbance at Temple Terrace School shelter.	6/3:00 p.m.	15	Hillsborough Controller	6/3:30 p.m.
37	EOC	TBRPC Monitor	Evacuation Scenario ID Report #5.	6/3:00 p.m.	15	EOC	6/3:30 p.m.
38	Highway Patrol	EOC	Eastbound traffic blocked on Howard Frankland Bridge due to auto accident.	6/4:00 p.m.	14	Hillsborough Controller	6/3:40 p.m.
39	Shelter Chief	EOC	Elderly man suffered heart attack at Marshall Junior High shelter. Still alive but in serious condition. Request medical assistance/transportation.	6/5:00 p.m.	13	Hillsborough Controller	6/3:50 p.m.
40	Unknown Caller	Sheriff's Office	Bomb threat at evacuation shelter (Leto High School).	6/6:00 p.m.	12	Hillsborough Controller	6/4:00 p.m.
41	Tampa Police	EOC	Davis Island bridges blocked by high water/wave action. A number of persons are stranded on the island.	6/7:00 p.m.	11	Hillsborough Controller	6/4:10 p.m.
42	Red Cross	EOC	Large numbers of evacuees reporting to shelters with pets.	6/7:30 p.m.	10:30	Hillsborough Controller	6/4:15 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
43	Citizen Report	EOC	Looting reported in progress in interbay area of Gandy and Bayshore Boulevard.	6/8:00 p.m.	10	Hillsborough Controller	6/4:20 p.m.
44	Shelter Chief Sligh	EOC	Dog has bitten four persons at Sligh Junior High shelter. Dog is being held for determination of rabies.	6/9:00 p.m.	9	Hillsborough Controller	6/4:30 p.m.
45	Plant City Police	EOC	Hazardous waste material reported leaking at commercial site located on Sammonds Road in Plant City.	6/10:00 p.m.	8	Hillsborough Controller	6/4:40 p.m.
46	Shelter Chief	EOC	Plant High School shelter inundated due to high water level. Request arrangements for move to an alternate shelter.	6/10:30 p.m.	7:30	Hillsborough Controller	6/4:45 p.m.
47	Shelter Chief	EOC	Shelter Chief at Chamberlain High School shelter reports sick child - doctor at shelter suspects Rubella (German measles).	6/11:00 p.m.	7	Hillsborough Controller	6/4:50 p.m.
48	Police/Sheriff	EOC	Considerable flooding reported due to heavy rainfall.	6/12:00 Midnight	6	Hillsborough Controller	6/5:00 p.m.

APPENDIX F

MANATEE COUNTY OPERATIONS SCENARIO

MANATEE COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
1	EOC	TBRPC Monitor	Evacuation Scenario Report #1.	6/7:00 a.m.	23	EOC	6/10:00 a.m.
2	Highway Patrol	EOC	Bus/tractor trailer involved in accident at S.R. 64 and Morgan Johnson Road. Forty persons injured and require immediate medical attention.	6/8:00 a.m.	22	Manatee Controller	6/11:00 a.m.
3	Blake Hospital	EOC	Significant fire in progress at Blake Memorial Hospital. Requires partial evacuation.	6/8:00 a.m.	22	Manatee Controller	6/11:00 a.m.
4	EOC	TBRPC Monitor	Evacuation Scenario Report #2.	6/9:00 a.m.	21	Manatee Controller	6/12:00 Noon
5	Sheriff's Office	EOC	Emergency supplies critically short throughout coastal region. Large numbers of shoppers may necessitate crowd control at some locations.	6/9:30 a.m.	20:30	Manatee Controller	6/12:30 p.m.
6	FAA	EOC	Report of overdue aircraft on flight from Sarasota/Bradenton to Zephyrhills airport.	6/10:00 a.m.	20	Manatee Controller	6/1:00 p.m.
7	Local EOC		Electrical power failure at Manatee County EOC.	6/10:30 a.m.	19:30	Manatee Controller	6/1:30 p.m.
8	Palmetto Police	EOC	Brush fire started by broken power line at 49th Street East and Canal Road. Request two fire trucks.	6/10:50 a.m.	19:10	Manatee Controller	6/1:50 p.m.
9	Airport Control Tower	EOC	Private aircraft landed gear up on NE/SW runway at Sarasota/Bradenton Airport. Minor injuries only. Fuel leaking from aircraft - no fire.	6/10:55 a.m.	19:05	Manatee Controller	6/1:55 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED		INPUT BY	LOCAL	
				TIME	CPA		DATE/TIME	DATE/TIME
10	Citizen Report	EOC	House fire in progress at 34th Street West and 51st Avenue Terrace West in Cedar Hammock.	6/11:00 a.m.	19	Manatee Controller	6/2:00 p.m.	6/2:00 p.m.
11	EOC	TBRPC Monitor	Evacuation Scenario Report #3.	6/11:00 a.m.	19	Manatee Controller	6/2:00 p.m.	6/2:00 p.m.
12	Citizen Report	EOC	Brush fire in progress near State Road 64 and Rye Road intersection.	6/11:05 a.m.	18:55	Manatee Controller	6/2:05 p.m.	6/2:05 p.m.
13	Local EOC		Electrical power restored at Manatee EOC.	6/11:10 a.m.	18:50	Manatee Controller	6/2:10 p.m.	6/2:10 p.m.
14	Bradenton Police	EOC	Restaurant on fire at 66th Street and Manatee Avenue West.	6/11:15 a.m.	18:45	Manatee Controller	6/2:15 p.m.	6/2:15 p.m.
15	U.S. Customs	EOC	Forty-foot boat sinking one-half mile east of Egmont Key. Six persons on board. Suspected cargo is marijuana.	6/11:30 a.m.	18:30	Manatee Controller	6/2:30 p.m.	6/2:30 p.m.
16	Bradenton Police	EOC	Truck carrying 20 cases of unstable crystallized ether overturned at First Street East and Manatee. No explosion yet.	6/11:45 a.m.	18:15	Manatee Controller	6/2:45 p.m.	6/2:45 p.m.
17	Unknown Caller	EOC	Bomb threat reported at Bradenton Middle School shelter.	6/12:00 Noon	18	Manatee Controller	6/3:00 p.m.	6/3:00 p.m.
18	EOC	TBRPC Monitor	Evacuation Scenario ID Report #4.	6/12:00 Noon	18	Manatee Controller	6/3:00 p.m.	6/3:00 p.m.
19	GTE	EOC	Commercial telephone service inoperative in 792 exchange area. (18th Avenue W. to 75th Street W. to Cortez Road to 51st Street.	6/12:00 Noon	18	Manatee Controller	6/3:00 p.m.	6/3:00 p.m.
20	Sheriff's Office	EOC	Barge drifted into Longboat Pass Bridge. Minor structural damage. Reroute road traffic until damage is surveyed.	6/1:00 p.m.	17	Manatee Controller	6/3:10 p.m.	6/3:10 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED		INPUT BY	LOCAL DATE/TIME
				TIME	CPA		
21	Shelter Chief	EOC	Several intoxicated persons creating disturbance at Palmetto Presbyterian Church shelter.	6/2:00 p.m.	16	Manatee Controller	6/3:20 p.m.
22	EOC	TBRPC Monitor	Evacuation Scenario ID Report #5.	6/3:00 p.m.	15	Manatee Controller	6/3:30 p.m.
23	Bradenton Police	EOC	Prisoners at Bradenton city jail creating near-riot disturbance. They wish to be evacuated.	6/4:00 p.m.	14	Manatee Controller	6/3:40 p.m.
24	Sarasota EOC	Manatee EOC	Sarasota County EOC reports traffic at standstill on John Ringling Causeway. Request Manatee re-open Longboat Pass Bridge.	6/5:00 p.m.	13	Manatee Controller	6/3:50 p.m.
25	Bradenton Police	EOC	Excessive rain created flooding on 9th Street from 17th Avenue W. to 23rd Avenue W. Sewers are flooded and overflowing.	6/6:00 p.m.	12	Manatee Controller	6/4:00 p.m.
26	Shelter Chief	Red Cross	Family of migrant workers at Palmetto Elementary shelter with no provisions and sick child. Request temporary provisions and medical aid.	6/7:00 p.m.	11	Manatee Controller	6/4:10 p.m.
27	Shelter Chief	EOC	Many evacuees arriving at shelters with pets. What is official recommendation?	6/8:00 p.m.	10	Manatee Controller	6/4:20 p.m.
28	Highway Patrol	EOC	Large dredging barge drifted into U.S. 19 Causeway Damage assessment necessary before opening to traffic.	6/9:00 p.m.	9	Manatee Controller	6/4:30 p.m.
29	Citizen Report	EOC	Looting reported in residential areas along West Cortez Road.	6/10:00 p.m.	8	Manatee Controller	6/4:40 p.m.
30	Port Authority	EOC	Tornado-like wind at Port Manatee. At least one large fuel storage tank leaking heavily.	6/10:30 p.m.	7:30	Manatee Controller	6/4:45 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED		CPA	INPUT BY	LOCAL DATE/TIME
				TIME	TIME			
31	Shelter Chief	EOC	Pregnant woman in labor at Palmetto Elementary School shelter. Request medical evacuation.	6/11:00 p.m.	7	Manatee Controller	6/4:50 p.m.	
32	Sheriff's Office	EOC	Strong winds and flooding due to heavy rain creating considerable damage throughout area.	6/11:30 p.m.	6:30	Manatee Controller	6/4:55 p.m.	
33	Shelter Chiefs	EOC	Shelter chiefs report critical shortage of toilet tissue.	6/12:00 Midnight	6	Manatee Controller	6/5:00 p.m.	

APPENDIX G

PASCO COUNTY OPERATIONS SCENARIO

PASCO COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
1	NPR Police	EOC	Ten car accident on U.S. 19 at the mall. Twenty persons injured, some seriously. Require immediate medical attention.	6/6:00 a.m.	24	Pasco Controller	6/9:00 a.m.
1A	NPR Police	EOC	Building under construction collapses injuring workers.	6/6:00 a.m.	24	Pasco Controller	6/9:00 a.m.
2	EOC	TERPC Monitor	Evacuation Scenario ID Report #1.	6/7:00 a.m.	23	Pasco Controller	6/10:00 a.m.
3	Citizen Report	EOC	Water main broken at Aloha Gardens causing local flooding of road.	6/8:00 a.m.	22	Pasco Controller	6/11:00 a.m.
4	NPR Police	EOC	Electrical power out along U.S. 19 in New Port Richey, south of Main Street. Traffic lights and service station fuel pumps inoperative.	6/8:00 a.m.	22	Pasco Controller	6/11:00 a.m.
5	Citizen Request	EOC	Two invalids in New Port Richey request transport to a shelter area or medical facility.	6/8:30 a.m.	21:30	Pasco Controller	6/11:30 a.m.
6	EOC	TERPC Monitor	Evacuation Scenario ID Report #2.	6/9:00 a.m.	21	EOC	6/12:00 Noon
7	County Official	EOC	Pasco County Administration directs county offices to close due to weather threat. (EOC activated for commissioners/departments heads).	6/9:00 a.m.	21	EOC	6/12:00 Noon
8	Citizen Report	EOC	Thirty-foot boat with seven persons on board sinking off Anclote Key State Park.	6/9:00 a.m.	21	Pasco Controller	6/12:00 Noon
9	Nursing Home	EOC	Director of Heather Hills Nursing Home requests early evacuation of patients from hazard area.	6/9:30 a.m.	20:30	Pasco Controller	6/12:30 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED		INPUT BY	LOCAL DATE/TIME
				TIME	CPA		
10	NPR Police	EOC	Electrical power restored along U.S. 19 in New Port Richey.	6/9:30 a.m.	20:30	Pasco Controller	6/12:30 p.m.
11	Red Cross	EOC	Severe shortage of emergency supplies in stores. Large numbers of shoppers becoming unmanageable. Request Sheriff provide crowd control.	6/10:00 a.m.	20	Pasco Controller	6/1:00 p.m.
12	FAA	EOC	Report of overdue aircraft on flight from Sarasota/Bradenton to Zephyrhills.	6/10:00 a.m.	20	Pasco Controller	6/1:00 p.m.
13	Sheriff's Office	EOC	Ambulance with expectant mother on board, overturned at highway 52 and Plaza Drive. Possibly due to localized wind gust.	6/10:30 a.m.	19:30	Pasco Controller	6/1:30 p.m.
14	EOC	Pinellas EOC	Request status of Pinellas evacuation planning. (unless provided earlier).	6/10:30 a.m.	19:30	Pasco Controller	6/1:30 p.m.
15	Local EOC		Commercial electric power failure at Pasco EOC. Requires alternate power source.	6/10:45 a.m.	19:15	Pasco Controller	6/1:45 p.m.
16	EOC	TBRPC Monitor	Evacuation Scenario ID Report #3.	6/11:00 a.m.	19	EOC	6/2:00 p.m.
17	Sheriff's Office	EOC	Prisoners at county jail in New Port Richey wish to be evacuated. Near-riot disturbance in progress.	6/11:00 a.m.	19	Pasco Controller	6/2:00 p.m.
17A	Dade City Police	EOC	Airliner emergency/crash landing.	6/11:00 a.m.	19	Pasco Controller	6/2:00 p.m.
18	Citizen Report	EOC	Mobile home fire in progress at Senate Manor.	6/11:15 a.m.	18:45	Pasco Controller	6/2:15 p.m.
19	Local EOC		Electrical power restored at Pasco EOC.	6/11:15 a.m.	18:45	Pasco Controller	6/2:15 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
20	Citizen Report	EOC	Automobile on fire at U.S. 19 and Darlington. Traffic blocked.	6/11:30 a.m.	18:30	Pasco Controller	6/2:30 p.m.
21	Local EOC	EOC	Communications tower on Moon Lake Road blown over by winds. EOC radio communications limited to systems with separate antenna.	6/11:45 a.m.	18:15	Pasco Controller	6/2:45 p.m.
22	EOC	TBRPC Monitor	Evacuation Scenario ID Report #4.	6/12:00 Noon	18	EOC	6/3:00 p.m.
23	Highway Patrol	EOC	Traffic backed up on State Road 54 to U.S. 19. Must divert traffic to an alternate evacuation route.	6/12:00 Noon	18	Pasco Controller	6/3:00 p.m.
24	Local EOC	EOC	Commercial telephone to WSUN/EBS inoperative.	6/1:00 p.m.	17	Pasco Controller	6/3:10 p.m.
25	Local EOC	EOC	Telephone service to Hudson area inoperative.	6/1:00 p.m.	17	Pasco Controller	6/3:10 p.m.
26	Newspaper Reporter	EOC	Residents of mobile home park in Port Richey declare that they will not evacuate under any circumstances.	6/2:00 p.m.	16	Pasco Controller	6/3:20 p.m.
27	EOC	TBRPC Monitor	Evacuation Scenario ID Report #5.	6/3:00 p.m.	15	EOC	6/3:30 p.m.
28	Local EOC	EOC	Telephone service to Hudson area restored.	6/4:00 p.m.	14	Pasco Controller	6/3:40 p.m.
29	Citizen Report	EOC	Several unidentified trucks/vans reported entering residential area around Gulf Harbors Golf Course. Possible looters.	6/5:00 p.m.	13	Pasco Controller	6/3:50 p.m.
30	Dade City Police	EOC	Tornado reported near Dade City. Some injuries but no fatalities. Moderate damage to some structures.	6/6:00 p.m.	12	Pasco Controller	6/4:00 p.m.
31	Unknown Caller	Sheriff's Office	Bomb threat at Cypress Elementary School shelter.	6/7:00 p.m.	11	Pasco Controller	6/4:10 p.m.

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
32	Dade City Police	EOC	Fire at electronics manufacturing warehouse on U.S. 301 North in Dade City. Possible leakage of hazardous waste material.	6/8:00 p.m.	10	Pasco Controller	6/4:20 p.m.
33	Red Cross	EOC	Large numbers of persons reporting to shelters with pets.	6/9:00 p.m.	9	Pasco Controller	6/4:30 p.m.
34	Police/Sheriff	EOC	Considerable flooding reported due to heavy rainfall.	6/10:00 p.m.	8	Pasco Controller	6/4:40 p.m.
35	Police/Sheriff	EOC	Large areas of coastal region without electrical power due to wind damage.	6/11:00 p.m.	7	Pasco Controller	6/4:50 p.m.
36	Shelter Chief	EOC	Shelter Chief at First Baptist Church (shelter) in New Port Richey reports one male who is ill. Symptoms could be viral encephalitis according to doctor at scene.	6/12:00 Midnight	6	Pasco Controller	6/5:00 p.m.

APPENDIX H

PINELLAS COUNTY OPERATIONS SCENARIO

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
1	Belleair	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	May 6, 1982 Time to be determined
2	Belleair Beach	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
3	Belleair Bluffs	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
4	Clearwater	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
5	Dunedin	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
6	Indian Rocks Beach	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
7	Largo	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
8	Madreia Beach	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
9	No. Redington Beach	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
10	Redington Beach	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
11	Redington Shores	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
12	Safety Harbor	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
13	St. Petersburg	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
14	St. Petersburg Beach	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
15	Seminole	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
16	South Pasadena	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	May 6, 1982 Time to be Determined
17	Tarpon Springs	PINCO EOC	Report EOC Activation Time.	N/A	N/A	EOC Chief	6/TBD
18	Belleair EOC	PINCO EOC	Amateur Radio Operator has not reported.	N/A	N/A	Belleair Controller	6/UNK
19	Redington Shores EOC	PINCO EOC	Amateur Radio Operator has not reported.	N/A	N/A	Redington Controller	6/UNK
20	PINCO EOC	FBDP	Request activation of CAP Units in County	6/7:00 am	23	Pinellas Controller	6/10:00 am
21	CAP	PINCO EOC	Evacuation initiated at Shore Acres Nursing Home.	6/8:00 am	22	Nursing Home Controller	6/11:00 am
22	CAP	PINCO EOC	Evacuation initiated at Tarpon Convalescent Center.	6/8:00 am	22	Nursing Home Controller	6/11:00 am
23	CAP	PINCO EOC	Assistance required at Shore Acres Nursing Home for patient loading.	6/8:30 am	21:30	Nursing Home Controller	6/11:30 am
24	CAP	PINCO EOC	Assistance required at Tarpon Convalescent Center for patient loading.	6/8:35 am	21:35	Nursing Home Controller	6/11:35 am
25	PINCO EOC	FBDP	Request Governor activate National Guard.	6/9:00 am	21	PINCO Controller	6/12:00 noon
26	PINCO EOC	Conference Call	FBDP, Hillsborough, Manatee, Pasco, Pinellas conference discussion on evacuation.	6/9:15 am	20:45	PINCO Controller	6/12:15 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
27	CAP	PINCO EOC	Evacuation of Shore Acres Nursing Home completed.	6/10:00 am	20	Nursing Home Controller	6/1:00 pm
28	FAA	PINCO EOC	Report of overdue aircraft on flight from Sarasota/Bradenton to Zephyrhills.	6/10:00 am	20	PINCO Controller	6/1:00 pm
29	Sheriff	PINCO EOC	Reports significant increase in traffic along evacuation routes.	6/10:30 am	19:30	PINCO Controller	6/1:30 pm
30	Internal	PINCO EOC	Commercial electric power to County EOC is out.	6/11:00 am	19	PINCO Controller	6/2:00 pm
31	Florida Power	PINCO EOC	Florida Power Co. reports broken main line in Clearwater/Tarpon Springs area.	6/11:05 am	18:55	PINCO Controller	6/2:05 pm
32	Tarpon General Hospital	PINCO EOC	Electric power failure.	6/11:10 am	18:50	Hospital Controller	6/2:10 pm
33	National Guard	PINCO EOC	12 ambulances 4x4 ready for use. Request mission.	6/11:10 am	18:50	PINCO Controller	6/2:10 pm
34	Tarpon Springs EOC	PINCO EOC	Traffic lights and gas pumps inoperative along U.S. 19 in North Clearwater, Palm Harbor and Tarpon Springs area.	6/11:15 am	18:45	Tarpon Springs Controller	6/2:15 pm
35	REACT	PINCO EOC	A small boat is in distress off Caladesi Island.	6/11:15 am	18:45	PINCO Controller	6/2:15 pm
36	Lake Seminole Hospital	PINCO EOC	Lake Seminole Hospital reports only one bus arrived. No wheel chair lift capability	6/11:15 am	18:45	Hospital Controller	6/2:15 pm
37	PINCO EOC	Red Cross	Shelter Status Report request.	6/11:15 am	18:45	Red Cross Controller	6/2:15 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
38	Metropolitan General Hospital	PINCO EOC	Metropolitan General Hospital reports no busses have arrived.	6/11:20 am	18:40	Hospital Controller	6/2:20 pm
39	St. Petersburg EOC	PINCO EOC	Fire at St. Petersburg Bayfront Center.	6/11:20 am	18:40	St. Petersburg Controller	6/2:20 pm
40	Sheriff	PINCO EOC	Evacuation Route, Traffic Control Points established.	6/11:25 am	18:35	PINCO Controller	6/2:25 pm
41	Palms of Pasadena Hospital	PINCO EOC	Palms of Pasadena Hospital initiating evacuation.	6/11:25 am	18:35	Hospital Controller	6/2:25 pm
42	Bay Pines VA	PINCO EOC	Need to transfer 20 critical patients to hospitals in Pinellas County.	6/11:30 am	18:30	Hospital Controller	6/2:30 pm
43	U.S. Customs	PINCO EOC	Forty foot boat sinking one-half mile east of Egmont Key. Five persons on board suspected of having marijuana.	6/11:30 am	18:30	PINCO Controller	6/2:30 pm
44	Florida Power	PINCO EOC	Electric power restored in northern Pinellas County.	6/11:30 am	18:30	PINCO Controller	6/2:30 pm
45	Bay Pines VA	PINCO EOC	Bay Pines VA Hospital reports 5 busses loaded for Tampa VA. Request best route.	6/11:35 am	18:25	Hospital Controller	6/2:35 pm
46	Red Cross	PINCO EOC	Oak Grove School Shelter is locked up.	6/11:35 am	18:25	Red Cross Controller	6/2:35 pm
47	Palms of Pasadena Hospital	PINCO EOC	Palms of Pasadena Hospital requests assistance in patient loading.	6/11:40 am	18:20	Hospital Controller	6/2:40 pm
48	Honeywell	PINCO EOC	Planning on releasing all employees at 3:00 pm.	6/11:40 am	18:20	PINCO Controller	6/2:40 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
49	South Pasadena EOC	PINCO EOC	Request County pre-position several high-bed vehicles in case of flooding.	6/11:45 am	18:15	South Pasadena Controller	6/2:45 pm
50	Red Cross	PINCO EOC	No REACT Team at Northeast High and Azalea School shelters.	6/11:45 am	18:15	Red Cross Controller	6/2:45 pm
51	Tarpon EOC	PINCO EOC	Request Lake Tarpon be lowered prior to Hurricane landfall.	6/11:50 am	18:10	Tarpon Controller	6/2:50 pm
52	Largo EOC	PINCO EOC	Broken water main reported at Keene and East Bay Drive.	6/11:55 am	18:05	Largo Controller	6/2:55 pm
53	Maria Manor	PINCO EOC	Maria Manor Nursing Home reports five busses at their location.	6/11:55 am	18:05	Nursing Home Controller	6/2:55 pm
54	Metropolitan General Hospital	PINCO EOC	Request security for drug transfer vehicle enroute to University General Hospital.	6/12:00 noon	18:00	Hospital Controller	6/3:00 pm
55	PINCO EOC	Conference Call	Notify FBDP, Hillsborough, Manatee, and Pasco Counties of Evacuation public announcement.	6/12:00 noon	18:00	PINCO Controller	6/3:00 pm
56	Metropolitan General Hospital	PINCO EOC	Metropolitan General Hospital requests two additional ambulances.	6/12:30 pm	17:30	Hospital Controller	6/3:05 pm
57	Bay Pines VA	PINCO EOC	Bay Pines VA reports 5 more busses loaded for Tampa VA. Request best route.	6/12:30 pm	17:30	Hospital Controller	6/3:05 pm
58	Jaylene Manor	PINCO EOC	Jaylene Manor Nursing Home reports no busses have arrived.	6/1:00 pm	17	Nursing Home Controller	6/3:10 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
59	St. Petersburg Beach EOC	PINCO EOC	Toll booth attendants collecting toll on Bayway. Largo traffic back-up.	6/1:00 pm	17	St. Petersburg Beach Controller	6/3:10 pm
60	Tarpon Springs Convalescent Center	PINCO EOC	Tarpon Springs Convalescent Center requests EMS ambulance support to move six patients to Tarpon General Hospital.	6/1:30 pm	16:30	Nursing Home Controller	6/3:15 pm
61	Gandy VFD	PINCO EOC	Mobile Home Park residents refuse to evacuate.	6/1:30	16:30	Gandy VFD Controller	6/3:15 pm
62	Red Cross	PINCO EOC	Many evacuees bringing pets to shelters.	6/1:30 pm	16:30	Red Cross Controller	6/3:15 pm
63	Clearwater EOC	PINCO EOC	Seven-car accident at SR-60 and McMullen-Booth Road. All lanes blocked. Car fire, gasoline spill and downed power lines involved.	6/2:00 pm	16:00	Clearwater Controller	6/3:20 pm
64	St. Petersburg EOC	PINCO EOC	Elderly residents of Suncoast Manor in South St. Petersburg refuse to evacuate.	6/2:00 pm	16:00	St. Petersburg Controller	6/3:20 pm
65	Red Cross	PINCO EOC	Several intoxicated persons causing disturbance at Dunedin High School shelter.	6/2:30 pm	15:30	Red Cross Controller	6/3:25 pm
66	St. Petersburg EOC	PINCO EOC	I-275 entrance ramp at 5th Avenue North blocked by multiple-vehicle accident.	6/2:30 pm	15:30	St. Petersburg Controller	6/3:25 pm
67	Red Cross	PINCO EOC	Tyrone Square Mall Manager requests police officers for security.	6/3:00 pm	15	Red Cross Controller	6/3:30 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
68	Largo EOC	PINCO EOC	Train blocking crossing at West Bay and Missouri.	6/3:00 pm	15	Largo Controller	6/3:30 pm
69	Bay Pines VA	PINCO EOC	5 busses ready to return from Tampa VA to Bay Pines. Request best route through Tampa.	6/3:00 pm	15	Hospital Controller	6/3:30 pm
70	Indian Rocks Beach	PINCO EOC	Main sewer line is broken and causing flooding along Gulf Boulevard.	6/3:00 pm	15	Indian Rocks Beach Controller	6/3:30 pm
71	Red Cross	PINCO EOC	Need volunteers to serve/assist in shelter operations.	6/3:30 pm	14:30	Red Cross Controller	6/3:35 pm
72	Highway Patrol	PINCO EOC	Eastbound traffic on Howard Franklin Bridge blocked due to auto accident.	6/4:00 pm	14:00	PINCO Controller	6/3:35 pm
73	Red Cross	PINCO EOC	Need nurse augmentation to serve ten shelters.	6/3:30 pm	14:30	Red Cross Controller	6/3:40 pm
74	Largo EOC	PINCO EOC	Mobile Home Park residents refuse to evacuate.	6/4:00 pm	14:30	Largo Controller	6/3:40 pm
75	REACT	PINCO EOC	Citizen reports auto on fire at SR-584 and East Lake Tarpon Road. Road temporarily blocked to evacuation traffic.	6/4:30 pm	13:30	PINCO Controller	6/3:45 pm
76	Seminole FD	PINCO EOC	Brush fire started by downed power line west end of 90th Avenue.	6/4:30 pm	13:30	Seminole FD Controller	6/3:45 pm
77	Red Cross	PINCO EOC	Dog has bitten 3 people at Largo Middle School shelter. Dog in custody. Request animal control assistance.	6/4:30 pm	13:30	PINCO Controller	6/3:45 pm
78	Safety Harbor EOC	PINCO EOC	Sewage is backing up in EOC and City Hall.	6/4:30 pm	13:30	Safety Harbor Controller	6/3:45 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	STIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
79	Seminole EOC	PINCO EOC	Report arrival of Redington Shores Executive Group.	N/A	N/A	Redington Shores Controller	May 6 To be determined
80	Seminole EOC	PINCO EOC	Report arrival of Madeira Beach Executive Group.	N/A	N/A	Madeira Beach Controller	May 6 To be determined
81	Seminole EOC	PINCO EOC	Report arrival of Redington Beach Executive Group.	N/A	N/A	Redington Beach Controller	May 6 To be determined
82	Seminole EOC	PINCO EOC	Report arrival of North Redington Beach Executive Group.	N/A	N/A	North Redington Beach Controller	May 6 To be determined
83	Pasco EOC	PINCO EOC	Northbound traffic on U.S. 19 extremely heavy. Request road-block at U.S. 19 and Keystone Road.	6/5:00 pm	13	PINCO Controller	6/3:50 pm
84	PINCO EOC	St. Petersburg Beach EOC	Request evacuation status.	6/5:00 pm	13	St. Petersburg Beach Controller	6/3:50 pm
85	PINCO EOC	Madeira Beach EOC	Request evacuation status.	6/5:00 pm	13	Madeira Beach Controller	6/3:50 pm
86	PINCO EOC	Redington Beach EOC	Request evacuation status.	6/5:00 pm	13	Redington Beach Controller	6/3:50 pm
87	PINCO EOC	Indian Rocks Beach EOC	Request evacuation status.	6/5:00 pm	13	Indian Rocks Beach Controller	6/3:50 pm
88	PINCO EOC	North Redington Beach EOC	Request evacuation status.	6/5:00 pm	13	North Redington Beach Controller	6/3:50 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
89	PINCO EOC	Redington Shores EOC	Request evacuation status.	6/5:00 pm	13	Redington Shores EOC	6/3:50 pm
90	PINCO EOC	Belleair Beach EOC	Request evacuation status.	6/5:00 pm	13	Belleair Beach Controller	6/3:50 pm
91	Palm Harbor	PINCO EOC	Security Guard at Innisbrook reports two monkeys loose at South end of golf course.	6/5:00 pm	13	Palm Harbor Controller	6/3:50 pm
92	Red Cross	PINCO EOC	An elderly man has suffered a heart attack at Pinellas Central School shelter. Request EMS assistance.	6/5:30 pm	12:30	Red Cross Controller	6/3:55 pm
93	General Telephone Co.	PINCO EOC	Commercial telephone service to WSUN/EBS inoperative.	6/6:00 pm	12	PINCO Controller	6/4:00 pm
94	PINCO EOC	St. Petersburg Beach EOC	Request Tide Gauge reading.	6/6:30 pm	11:30	St. Petersburg Beach Controller	6/4:05 pm
95	PINCO EOC	Madeira Beach EOC	Request Tide Gauge reading.	6/6:30 pm	11:30	Madeira Beach Controller	6/4:05 pm
96	PINCO EOC	St. Petersburg EOC	Request Tide Gauge reading.	6/6:30 pm	11:30	St. Petersburg Controller	6/4:05 pm
97	PINCO EOC	Dunedin EOC	Request Tide Gauge reading.	6/6:30 pm	11:30	Dunedin Controller	6/4:05 pm
98	PINCO EOC	Tarpon Springs	Request Tide Gauge reading.	6/6:30 pm	11:30	Tarpon Springs Controller	6/4:05 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
99	Tarpon Springs EOC	PINCO EOC	Commercial telephone to EOC is out.	6/6:30 pm	11:30	Tarpon Springs Controller	6/4:05 pm
100	Indian Rocks Beach EOC	PINCO EOC	Report move to alternate EOC.	N/A	N/A	Indian Rocks Beach Controller	May 6 - To be determined
101	Belleair Bluffs EOC	PINCO EOC	48-foot sailboat collided with Belleair Causeway Bridge.	6/7:00 pm	11	Belleair Bluffs Controller	6/4:10 pm
102	St. Petersburg EOC	PINCO EOC	911 Telephone exchange area out of service.	6/7:00 pm	11	St. Petersburg Controller	6/4:10 pm
103	Belleair Beach EOC	PINCO EOC	Sailboat hit Belleair Causeway. Mast and rigging blocking Causeway. Injuries from traffic accident and on sailboat. Power line down.	6/7:00 pm	11	Belleair Beach Controller	6/4:10 pm
104	Seminole EOC	PINCO EOC	Commercial telephone to EOC is out.	6/7:00 pm	11	Seminole Controller	6/4:10 pm
105	St. Petersburg EOC	PINCO EOC	Commercial telephone to EOC is out.	6/7:30 pm	10:30	St. Petersburg Controller	6/4:15 pm
106	Red Cross	PINCO EOC	Palm Harbor Middle School full. Request secondary shelter be opened for Zone 9.	6/7:30 pm	10:30	Red Cross Controller	6/4:15 pm
107	Largo EOC	PINCO EOC	Commercial telephone to EOC is out.	6/7:30 pm	10:30	Largo Controller	6/4:15 pm
108	FHP	PINCO EOC	Traffic backed up from Gunn Highway to East Lake Tarpon Road.	6/7:30 pm	10:30	PINCO Controller	6/4:15 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
109	Bayfront Medical Center	PINCO EOC	Commercial electric power to Hospital is out.	6/7:30 pm	10:30	PINCO Controller	6/4:15 pm
110	South Pasadena EOC	PINCO EOC	Majestic Towers refuses to evacuate.	6/7:30 pm	10:30	PINCO Controller	6/4:15 pm
111	Indian Rocks Beach FD	PINCO EOC	House fire caused by downed power line on roof. Electricity on in many evacuated houses. Recommend Florida Power cut electricity to Beach area.	6/7:30 pm	10:30	Indian Rocks Beach FD Controller	6/4:15 pm
112	Red Cross	PINCO EOC	Request truck to move food from McDonald's U.S. 19 in Tarpon Springs to St. Ignatius Church and All Saints' Episcopal Church in Tarpon Springs.	6/7:30 pm	10:30	Red Cross Controller	6/4:15 pm
113	Dunedin EOC	PINCO EOC	Honeymoon Island evacuated.	6/8:00 pm	10	Dunedin Controller	6/4:20 pm
114	St. Petersburg EOC	PINCO EOC	Rainfall starting to flood exits from Shore Acres. May need 4-wheel drive assistance.	6/9:00 pm	9	St. Petersburg Controller	6/4:30 pm
115	Pinellas Park EOC	PINCO EOC	Flooding near 82nd Avenue North. Request high-wheeled vehicle assistance to evacuate.	6/9:00 pm	9	Pinellas Park Controller	6/4:30 pm
116	USCG EOC	PINCO EOC	Alternate EOC locked.	N/A	N/A	PINCO Controller	May 6 - To be determined
117	South Pasadena EOC	PINCO EOC	Report move to alternate EOC.	N/A	N/A	South Pasadena Controller	May 6 - To be determined
118	Clearwater EOC	PINCO EOC	Clearwater Pass Bridge locked in down position.	6/9:00 pm	9	Clearwater Controller	6/4:30 pm

PINELLAS COUNTY OPERATIONS SCENARIO

ITEM NO.	FROM	TO	EVENT	SIMULATED TIME	CPA	INPUT BY	LOCAL DATE/TIME
119	PINCO EOC	Seminole EOC	Water to Redington Shores, Madeira Beach, Redington Beach and North Redington Beach will be cut off at 5:00 pm.	6/9:00 pm	9	PINCO Controller	6/4:30 pm
120	Safety Harbor EOC	PINCO EOC	Tornado touchdown at 6th Avenue North and 4th Street North. 4 houses damaged - 2 injured.	6/9:30 pm	8:30	Safety Harbor Controller	6/4:35 pm
121	Largo EOC	PINCO EOC	Tornado touchdown at Highland Avenue and Rosery Road. Estimated 10 injured.	6/9:30 pm	8:30	Largo Controller	6/4:35 pm
122	FHP	PINCO EOC	Roadblock established on Eastbound Gandy Bridge	6/10:00 pm	8:00	PINCO Controller	6/4:40 pm
123	Clearwater EOC	PINCO EOC	Establishing roadblock on west end of Courtney Campbell Causeway.	6/10:30 pm	7:30	PINCO Controller	6/4:40 pm
124	FHP	PINCO EOC	Blocking Howard Frankland Bridge due to waves.	6/10:30 pm	7:30	PINCO Controller	6/4:45 pm
125	Sheriff	PINCO EOC	Flooding at U.S. 19 and Allen Creek Bridge North and Southbound lanes blocked.	6/11:30 pm	6:30	PINCO Controller	6/4:55 pm

APPENDIX I
KEY EOS LOCAL EVENTS

KEY EOS LOCAL EVENTS

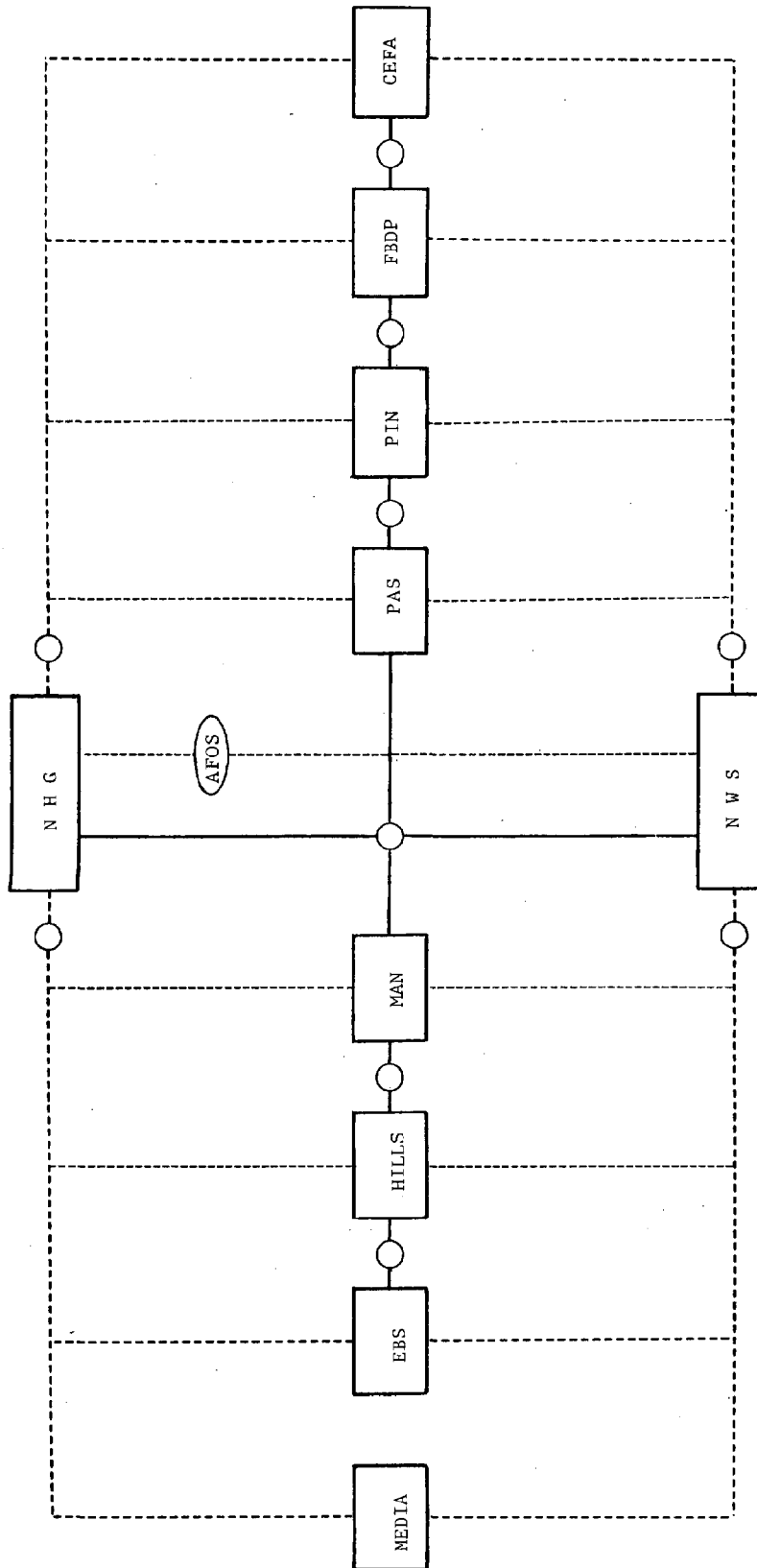
To allow for spontaneous response to hurricane-caused emergencies by local response personnel, most of the local emergency events were not made known to the local response agencies, with the exception of the county Exercise Controllers. To maintain such spontaneity, yet allow outside and press observers to be on site to observe the response to the various events, the type and location of each event was revealed approximately 1½ hours prior to its occurrence on a blackboard at the EOS Regional Control Point. The following listing of those key local events was compiled after the Exercise of May 6:

<u>Time</u>	<u>Event</u>	<u>Observation Site</u>
9:00 a.m. to 1:30 p.m.	Mass Casualty Drill: Hillsborough County	Tampa Stadium or Tampa General Hospital or St. Joseph's Hospital
9:00 a.m.	Mass Casualty Drill: Pasco County	Adult Education Center (New Port Richey)
10:30 a.m.	Manhattan Nursing Home Evacuation to Public Red Cross Shelter: Robinson High School	Manhattan Nursing Home or Robinson High School (Tampa)
10:30 a.m.	Canterbury Towers Nursing Home Evacuation to Public Red Cross Shelter: Blake Middle School	Blake Middle School (Tampa)
11:00 a.m.	Shore Acres Nursing Home Evacuation	Shore Acres Nursing Home (St. Petersburg)
11:00 a.m.	Tarpon Convalescent Nursing Home Evacuation	Tarpon Convalescent Center (Tarpon Spring)
12:00 noon	Manatee County EOC Personnel Training Session	Manatee EOC (Bradenton)
1:00 p.m.	Pinellas County EOC Personnel Training Session	Pinellas County EOC (Clearwater)
2:30 p.m.	Wheelchair Evacuation: Residential in Pasco County	Report to Pasco County (New Port Richey)
3:00 p.m.	Manatee County EOC Tour	Manatee County EOC (Bradenton)
3:00 p.m.	Pasco County EOC Tour	Pasco County EOC (New Port Richey)
4:00 p.m.	Hillsborough County EOC Tour	Hillsborough County EOC (Tampa)

APPENDIX J

WARNING AND COMMUNICATIONS MONITORING

WARNING AND COMMUNICATIONS MONITORING FOR THE TAMPA BAY REGION HURRICANE EVACUATION EXERCISE



LEGEND:

- NHC = National Hurricane Center (Miami)
 NWS = Tampa Area National Weather Service (Ruskin)
 MEDIA = Commercial Radio, Television and Newspaper
 EBS = Common Program Control Station of the Emergency Broadcast System (WSUN Radio-St. Petersburg/Tampa)
- HILLS = Hillsborough County Emergency Operating Center (EOC) and constituent municipal EOCs
 MAN = Manatee County Emergency Operating Center (EOC) and constituent municipal EOCs
 PAS = Pasco County Emergency Operating Center (EOC) and constituent municipal EOCs
 PIN = Pinellas County Emergency Operating Center (EOC) and constituent municipal EOCs
 FBDP = Florida Bureau of Disaster Preparedness (Tallahassee)
- CEFA = Central Florida Area Coordinator - Bureau of Disaster Preparedness (Wildwood)
 O = Tampa Bay Regional Planning Council monitor for interjurisdictional communications evaluation
 AFOS = Automated Field Operations Service
 --- = Advisories/SLOSH data (NHC) or local action statements (NWS) via National Weather Wire (NWS) teletype
 — = Localized evacuation information via NHC conference calls or EBS activation requests via National Warning System (NAWAS)

APPENDIX K

SUMMARY OF MAY 6 INTERGOVERNMENTAL COMMUNICATIONS

SUMMARY OF MAY 6 INTERGOVERNMENTAL COMMUNICATIONS

Time Method	From	To	Content of Transmission
9:00 a.m. NAWAS	NHC	FBDP, CEFA, Hillsborough, Manatee, Pasco, Pinellas Counties	Conference Call-CPA = 24 hrs. Hurricane Isabel is located 400 miles WSW of the Tampa Bay Region at 26.2N-88.7W. Movement is ENE at 15 mph. Hurricane warnings have been issued for Florida's west coast from St. Marks southward to Ft. Myers. Gale warnings extend out to Panama City and Key West. Isabel is a Category III storm with winds of 120 mph. Landfall can be expected in 24 hours (11 p.m. compressed exercise time) with 10 foot water levels. Some inlets and bay areas can expect water levels from 15 to 20 feet above normal.
9:43 a.m. NAWAS	Hillsborough County	WSUN (EBS)	Exercise EBS message for residents of Hillsborough County. "Civil Defense authorities in Hillsborough County are testing hurricane evacuation level D for their county." Tune to PBS (Ch.3) for maps showing evacuation zones.
9:50 a.m. PBS TV	WFLA Radio	Public	Hillsborough County citizens advised of EBS message concerning exercise of evacuation scenario D. Citizens advised to tune to PBS (Ch.3) for Graphic presentation of evacuation zones.
9:50 a.m. PBS TV	PBS Ch.3	Public	Presented Hillsborough County evacuation maps.
10:00 a.m. County Civil Defense Radio	Hillsborough County Hospital Coordinator	Hillsborough County	Hillsborough County hospitals coordinator advised area hospitals of simulated Disaster (tornado) resulting in 263 casualties requiring medical treatment.

Time Method	From	To	Content of Transmission
10:02 a.m. State LGR	Hillsborough County	FBDP	Message for Governor Bob Graham from Sheriff Walter C. Heinrich. Subject: Hurricane Emergency. "Disaster preparedness officials and U.S. weather, Miami Center advises a Class Three Hurricane with an estimated storm surge of between twelve and eighteen feet expected to hit West Coast. Pursuant to Section 252.36(5)(e), Florida Statute (1981), we request an executive order authorizing, directing and compelling the evacuation of persons in affected areas as determined by local disaster control officials."
10:18 a.m. Telephone	Manatee County	TBRPC	Evacuation Scenario Identification Report #1. Hurricane identified as level C. No evacuation order at present but decision expected within two to three hours.
10:33 a.m. NAWAS	Hillsborough County	CEFA For FBDP	Repeat of 10:02 a.m. message from Sheriff Heinrich to Governor Graham.
10:38 a.m. Telephone	Hillsborough County	TBRPC Monitor	Evacuation Scenario Identification Report #1. Hurricane identified as level D. No evacuation order declared at present time but decision expected within two hours.
10:40 a.m. NAWAS	Hillsborough County	WSUN (EBS)	Exercise message. "This is a civil defense evacuation announcement. Hurricane Isabel is threatening the Tampa Bay area. If it continues on the expected track it will require citizens to evacuate for their safety. Zonal evacuation hurricane surge of 18 to 20 feet at shoreline accompanied by hurricane velocity winds. Complete evacuation of all residents of evacuation zones one through forty-four from storm surge and high winds. Evacuation of mobile homes and travel trailer residents in evacuation zones 45 through 59 from wind. Hillsborough County Commissioners are anticipating evacuation to start at 13:00 hours. There will be a noon advisory update. Citizens should check tabloids for zones/routes. -WSUN advised that they were logging supplemental EBS announcements but only the four scheduled test messages would be broadcast.

Time Method	From	To	Content of Transmission
10:56 a.m. NAWAS	Pinellas County	FBDP	Pinellas County Disaster Advisory Committee meeting completed. Will recommend to Board of County Commissioners that an evacuation be ordered for 3:10 p.m. (CPA-17 hours) for a level C evacuation. Worst case storm for Pinellas appears to be SL-L-NN-3 with a minimum of 16.5 hours required for evacuation. Only one-half hour of additional safety factor has been added during the exercise because of artificial constraints (E.G. - school schedules, etc.). No parameter adjustments have been made as yet.
10:59 a.m. NAWAS	Pinellas County	Hillsborough, Manatee, Pasco Counties & WSUN (EBS)	<p>Conference call to advise addressees of 10:56 a.m. message (above). Emphasis placed on influence of artificial constraints (school closings) in selecting exercise evacuation time.</p> <ul style="list-style-type: none"> - WSUN (EBS) agreed to accept this call as trigger for 11:15 a.m. EBS announcement of level C evacuation for Pinellas County. - Pinellas queried other three counties as to status of their evacuation planning. - Hillsborough-Board of County Commissioners still in decision meeting. Tentatively planning on a 15:25 evacuation but it may be moved up to 1:00 p.m. - Pasco-Still working the problem. Looks as if worst case storm will be a level D. Evacuation time will probably be between 3:00 p.m. and 3:30 p.m. (CPA-18 to CPA-15). Final decision expected in about an hour. - Manatee-We are looking at a Level C evacuation with a time of around 3:00 p.m. Exact time will be passed when final decision is made.
12:01 p.m. County Civil Defense Radio (LCR)	Hillsborough County	Hillsborough County Agencies	Passed 9:00 a.m. (simulated time) NHC weather advisory #10 to county agencies.

Time	Method	From	To	Content of Transmission
1:20 p.m.	NAWAS	Hillsborough County	FBDP/CEFA,EBS	<p>Hillsborough County Board of Commissioners has issued an evacuation order to start effective 1300 hours which was 20 minutes ago. Hurricane Isabel is threatening the Tampa Bay area and the citizens should evacuate for their safety. Zonal evacuation from hurricane storm surge at shorelines of 18 to 20 feet is expected and they want a complete evacuation of all residents of evacuation zones 1 through 44 from storm surge and high winds. There should be evacuation of residents of mobile homes and travel trailers from zones 45 through 59 due to hurricane winds. The citizens should check their hurricane evacuation tabloids for their evacuation zones and routes to assigned shelters. This is an exercise message.</p> <p>- WSUN advises that they will not broadcast exercise message.</p>
1:34 p.m.	NAWAS	Pasco County	CEFA, Hillsborough, Manatee, Pinellas, Counties and WSUN (EBS)	<p>Conference Call - Pasco County advises that the Chairman of the Board of County Commissioners has issued an evacuation order for Pasco County, zones 1 through 6, since we do have five foot waves and Gulf Harbor will be under water. We expect to issue the full alert in due time but at the present time we will go ahead and evacuate zones 1 through 6.</p> <p>- WSUN-That would not represent anything we have here-Level D?</p> <p>- Pasco-We will work up to a higher level, but at the present time we do have roads under water and we are experiencing some difficulty in Gulf Harbor where there are a number of people.</p>
1:42 p.m.	NAWAS	FBDP	CEFA, Hillsborough, Manatee, Pasco and Pinellas Counties	<p>Conference Call - FBDP advises that State EOC is activated effective 1300 hours today. State agencies in place are Dept. of Transportation, Game and Fresh Water Fish Commission, Dept. of Natural Resources, Highway Patrol, National Guard and HRS. Additionally, representatives from CAP and the Red Cross are present. Area EOC at Wildwood is activated and will function as a communications link.</p>

Time Method	From	To	Content of Transmission
2:04 p.m. NAWAS	Manatee County	CEFA, FBDP	We have just received word from the State disaster Preparedness Office that the Governor has issued an evacuation order for the Tampa Bay Region at 2:00 p.m. Our Board of County Commissioners concurs with this order and we are now issuing one for Manatee County.
2:05 p.m. NAWAS	Pasco County	CEFA, FBDP	Pasco County also concurs with State EOC and the Governor's evacuation order.
2:06 p.m. NAWAS	Hillsborough County	CEFA	Request time of Governor's evacuation order. - CEFA advises order effective 2:00 p.m.
2:08 p.m. NAWAS	Manatee County	CEFA	Have you received any information from the state office in reference to an executive order? - CEFA reply is negative. - Manatee-will you attempt to confirm?
2:09 p.m. NAWAS	FBDP	CEFA Hillsborough, Manatee, Pasco and Pinellas Counties WSUN (EBS)	Conference Call in support of the Tampa Bay exercise. "After receiving a request from a county for a state executive order and after discussions and concurrence with the four affected counties in the Tampa Bay Area (Hillsborough, Manatee, Pasco and Pinellas), a state executive order numbered 82-100 is issued at 2:00 p.m. in support and in concurrence with local executive orders for the evacuation of affected areas concerning the oncoming hurricane." - Pasco-Does this include whatever scenario we set up or is it for the whole county? - FBDP-This affects the particular scenario based on the track of the hurricane at this time.

Time Method	From	To	Content of Transmission
			<ul style="list-style-type: none"> - WSUN-Does that mean level D for Pasco County? - Pasco-Affirmative. - WSUN-That would also include all levels of Manatee County. Is that right? - FBDP-That is correct.
2:15 p.m. NAWAS	FBDP	Multiple Counties	<p>Conference Call-Repeat of information from previous call at 2:09 p.m. Executive order 82-100 issued jointly and in concurrence with those counties (Hillsborough, Manatee, Pasco and Pinellas) for the evacuation of affected citizens in areas defined by the Hurricane Evacuation Plan. There may very well be surrounding counties that would have received, or would receive evacuation and receipt of citizens from these four counties. This information is passed on as an exercise message for notification to those surrounding counties of the Tampa Bay Area.</p> <ul style="list-style-type: none"> - WSUN (EBS)-Does this evacuation affect Manatee level C at this time? - Manatee County-Affirmative. - Pasco County-My NAWAS phone not operating properly. It does not ring on inbound calls.
2:30 p.m. WSUN 620 Radio	WSUN (EBS)	Public	Exercise EBS message for residents of Manatee County. Exercise of evacuation level C.
2:35 p.m. LOR	Belleair Beach (Municipality)	Pinellas County EOC	Belleair Beach EOC is not receiving EOS weather information.

Time Method	From	To	Content of Transmission
2:55 p.m. NAWAS	FBDP	Hillsborough, Manatee, Pasco and Pinellas Counties	Reference Exercise Executive Order 82-100. If any county requires state assistance they should notify State EOC through appropriate communications.
3:00 p.m. NAWAS	Manatee County	CEFA/FBDP	Simulated bomb threat at evacuation shelter location in Bradenton.
3:30 p.m. NAWAS	Pinellas County	FBDP, Hillsborough, Manatee, Pasco, Pinellas Counties WSUN	An evacuation order was issued by the Chairman, Board of County Commissioners in Pinellas County for evacuation level C and all mobile home residents in the county at 3:10 p.m.
4:03 p.m. NAWAS	Manatee County	WSUN (EBS)	Exercise EBS announcement. Manatee County is exercising Level C hurricane evacuation. Evacuation has been underway for two hours. (WSUN did not broadcast).

APPENDIX L
REGIONAL EXERCISE CRITIQUE COMMITTEE

REGIONAL EXERCISE CRITIQUE COMMITTEE

Guy Daines, Operations Coordinator, Pinellas County Civil Emergency Services
Edward McElroy, Chief Disaster Operations - Fire & Disaster, Hillsborough County
Earl Goff, Deputy Director - Fire & Disaster, Hillsborough County
Chet Tharpe, Director - Fire & Disaster, Hillsborough County
Larry Gespert, Communications Coordinator - Fire & Disaster, Hillsborough County
Kathy McGuire, Planning Administrator - Florida Bureau of Disaster Preparedness
Bernice Wilder, Chief-Civil Defense - Manatee County
Bill Kuhn, Disaster Chairman-Red Cross - Manatee County
Ed Straight, EMS Chief - Manatee County
Don Bowers, Fire & Rescue Coordinator - Manatee County
Jim Hamrick, Civil Defense Director - Manatee County
Ron Newton, Civil Defense Director - Pasco County
Jim Stasko, Program Manager - WEDU-TV (PBS)
Stewart Siddall, M.D., Medical Director - Hillsborough County
Bob Borum, Chief Operator - WEDU-TV (PBS)
Fred Crosby - NWS-Tampa Area Office
Ron Ebben, WSUN Radio (EBS)
Ed Gorman, WSUN Radio (EBS)
David Griffith, Exercise Project Manager, TBRPC
Bill Vinson, Exercise Coordinator, TBRPC
Mary Wiser, Media Coordinator, TBRPC

APPENDIX M

EXERCISE EBS MESSAGE

(25 SEC. TWO TONE ATTENTION SIGNAL AND/OR EBS SLIDE)

THIS IS A TEST OF THE EMERGENCY BROADCAST SYSTEM. THE BROADCASTERS OF YOUR AREA, IN VOLUNTARY COOPERATION WITH FEDERAL, STATE AND LOCAL AUTHORITIES, HAVE DEVELOPED THIS SYSTEM TO KEEP YOU INFORMED IN THE EVENT OF AN EMERGENCY. IF THIS HAD BEEN AN ACTUAL EMERGENCY, THE ATTENTION SIGNAL YOU JUST HEARD WOULD HAVE BEEN FOLLOWED BY OFFICIAL INFORMATION, NEWS OR INSTRUCTIONS. TODAY THIS STATION AND OTHER STATIONS IN WEST CENTRAL FLORIDA, ARE PARTICIPATING IN AN EXERCISE OF THE TAMPA BAY REGION HURRICANE EVACUATION PLAN. THE TEST YOU ARE HEARING NOW APPLIES TO RESIDENTS OF _____ COUNTY, THE CIVIL DEFENSE AUTHORITIES IN _____ COUNTY ARE TESTING HURRICANE EVACUATION LEVEL ____ FOR THEIR COUNTY. TO HELP YOU UNDERSTAND MORE ABOUT THE HURRICANE EVACUATION PLAN BEING EXERCISED TODAY, AND WHAT EVACUATION LEVELS MEAN TO YOU, PUBLIC TELEVISION STATION W=E=D=U, CHANNEL THREE, IS NOW PRESENTING A SPECIAL PROGRAM. THE PROGRAM WILL SHOW ACTUAL EVACUATION LEVEL MAPS OF _____ COUNTY, AND OTHER COUNTIES IN THE TAMPA OPERATIONAL AREA. THIS CONCLUDES THIS TEST OF THE EMERGENCY BROADCAST SYSTEM.

(RESUME NORMAL PROGRAMMING)

APPENDIX N

EXERCISE VIDEO TAPE SCRIPT

VIDEO

(EBS SLIDE)

AUDIO

WEDU-CHANNEL 3, IN CONJUNCTION WITH THE EMERGENCY BROADCAST SYSTEM, IS TODAY PARTICIPATING IN THE TAMPA BAY REGION HURRICANE EVACUATION EXERCISE: A ONE-DAY TEST OF THE HURRICANE EVACUATION PLANS OF HILLSBOROUGH, MANATEE, PASCO, AND PINELLAS COUNTIES. THE FOLLOWING INFORMATION IS THE OFFICIAL LOCAL EVACUATION INSTRUCTIONS THAT WOULD BE ISSUED WHEN A HURRICANE IS ACTUALLY THREATENING THESE COUNTIES AND EMERGENCY EVACUATION IS NECESSARY. THIS IS ONLY A TEST.

(PICTURE OF
FRONT OF TABLOID)

IF YOU HAVE JUST RECEIVED THE EMERGENCY BROADCAST TEST STATEMENT VIA RADIO OR TELEVISION, YOU WERE INFORMED OF ONE OF FIVE (5) EVACUATION LEVELS (EITHER A, B, C, D, OR E) FOR YOUR COUNTY OF RESIDENCE. YOUR LOCAL EVACUATION AUTHORITIES WILL BE USING THESE SAME ALPHABETICAL LEVELS TO INFORM YOU WHETHER OR NOT YOU WOULD HAVE TO EVACUATE FROM AN ACTUAL APPROACHING HURRICANE. THIS STANDARD INFORMATION AND MORE DETAILED INSTRUCTIONS WERE MADE AVAILABLE TO YOU IN YOUR LOCAL NEWSPAPER BEFORE THE 1981 HURRICANE SEASON. IT WILL BE MADE AVAILABLE TO YOU AGAIN BEFORE THE COMING HURRICANE

SEASON. AFTER IDENTIFYING THE ALPHABETICAL EVACUATION LEVEL(S) APPLICABLE TO YOUR HOME WHICH WILL APPEAR ON YOUR TV SCREEN, CONSULT YOUR NEWSPAPER SUPPLEMENT FOR MORE DETAILED INFORMATION SUCH AS YOUR ASSIGNED EVACUATION ROUTE AND YOUR ASSIGNED EVACUATION SHELTER. IF YOU DO NOT HAVE ACCESS TO THE NEWSPAPER SUPPLEMENT, CONTACT YOUR COUNTY CIVIL DEFENSE/DISASTER PREPAREDNESS DEPARTMENT. THIS IS ONLY A TEST.

(CLOSE PAN OF
HILLSBOROUGH
COUNTY MAP)

THIS EVACUATION MAP SHOWS THE FIVE (5) EVACUATION LEVELS FOR HILLSBOROUGH COUNTY. THE LEVELS ARE CALLED LEVELS A, B, C, D, AND E. EACH LEVEL HAS A CORRESPONDING SET OF EVACUATION ZONE NUMBERS (VIEWERS WITH BLACK AND WHITE TV SHOULD IDENTIFY THEIR ZONE NUMBER):

EVACUATION LEVEL A = AREAS COLORED PURPLE
(ZONES 1 THROUGH 17) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL B = AREAS COLORED PURPLE AND BLUE
(ZONES 1 THROUGH 25) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL C = AREAS COLORED PURPLE, BLUE AND
GREEN
(ZONES 1 THROUGH 37) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL D = AREAS COLORED PURPLE, BLUE,
GREEN, AND YELLOW

(ZONES 1 THROUGH 44) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL E = AREAS COLORED PURPLE, BLUE,
GREEN, YELLOW, AND ORANGE

(ZONES 1 THROUGH 50) AND ALL MOBILE HOME RESIDENTS

(CLOSE PAN OF
PINELLAS COUNTY
MAP)

THIS EVACUATION MAP SHOWS THE FIVE (5) EVACUATION
LEVELS FOR PINELLAS COUNTY. THE LEVELS ARE CALLED
LEVELS A, B, C, D, AND E. EACH LEVEL HAS A
CORRESPONDING SET OF EVACUATION ZONE NUMBERS
(VIEWERS WITH BLACK AND WHITE TV SHOULD IDENTIFY
THEIR ZONE NUMBER):

EVACUATION LEVEL A = AREAS COLORED PURPLE
(ZONES 1 THROUGH 21) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL B = AREAS COLORED PURPLE AND BLUE
(ZONES 1 THROUGH 35) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL C = AREAS COLORED PURPLE, BLUE AND
GREEN

(ZONES 1 THROUGH 43) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL D = AREAS COLORED PURPLE, BLUE,
GREEN, AND YELLOW

(ZONES 1 THROUGH 49) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL E = AREAS COLORED PURPLE, BLUE,
GREEN, YELLOW, AND ORANGE

(ZONES 1 THROUGH 57) AND ALL MOBILE HOME RESIDENTS

(CLOSE PAN OF
PASCO COUNTY
MAP)

THIS EVACUATION MAP SHOWS THE FIVE (5) EVACUATION
LEVELS FOR PASCO COUNTY. THE LEVELS ARE CALLED
LEVELS A, B, C, D, AND E. EACH LEVEL HAS A
CORRESPONDING SET OF EVACUATION ZONE NUMBERS
(VIEWERS WITH BLACK AND WHITE TV SHOULD IDENTIFY
THEIR ZONE NUMBER):

EVACUATION LEVEL A = AREAS COLORED PURPLE
(ZONES 1 THROUGH 6) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL B = AREAS COLORED PURPLE AND BLUE
(ZONES 1 THROUGH 9) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL C = AREAS COLORED PURPLE, BLUE AND
GREEN

(ZONES 1 THROUGH 10) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL D = AREAS COLORED PURPLE, BLUE,
GREEN, AND YELLOW

(ZONES 1 THROUGH 14) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL E = AREAS COLORED PURPLE, BLUE,
GREEN, YELLOW, AND ORANGE

(ZONES 1 THROUGH 16) AND ALL MOBILE HOME RESIDENTS

(CLOSE PAN OF
MANATEE COUNTY
MAP

THIS EVACUATION MAP SHOWS THE FIVE (5) EVACUATION
LEVELS FOR MANATEE COUNTY. THE LEVELS ARE CALLED
LEVELS A, B, C, D, AND E. EACH LEVEL HAS A
CORRESPONDING SET OF EVACUATION ZONE NUMBERS
(VIEWERS WITH BLACK AND WHITE TV SHOULD IDENTIFY
THEIR ZONE NUMBER):

EVACUATION LEVEL A = AREAS COLORED PURPLE
(ZONES 1 THROUGH 9) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL B = AREAS COLORED PURPLE AND BLUE
(ZONES 1 THROUGH 11) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL C = AREAS COLORED PURPLE, BLUE AND
GREEN
(ZONES 1 THROUGH 18) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL D = AREAS COLORED PURPLE, BLUE,
GREEN, AND YELLOW

(ZONES 1 THROUGH 21) AND ALL MOBILE HOME RESIDENTS

EVACUATION LEVEL E = AREAS COLORED PURPLE, BLUE,
GREEN, YELLOW, AND ORANGE

(ZONES 1 THROUGH 24) AND ALL MOBILE HOME RESIDENTS

VIDEO

AUDIO

(PICTURE OF
ALL FOUR COUNTY
MAPS FROM A
DISTANCE)

IF YOU DO NOT LIVE IN ONE OF THE AREAS INDICATED BY
A COLOR CORRESPONDING TO ONE OF THE EVACUATION
LEVELS (AND YOU LIVE IN A SOLID STRUCTURE) YOU WILL
NOT HAVE TO EVACUATE UNDER ANY HURRICANE
SITUATION...IN THIS CASE...STAY IN YOUR HOME.
HOWEVER, REMEMBER...ALL MOBILE HOME RESIDENTS
LIVING ANYWHERE IN THE COUNTY MUST EVACUATE UNDER
ALL OF THE FIVE (5) EVACUATION LEVELS.
THIS IS ONLY A TEST.

IF YOU NEED ASSISTANCE IN LOCATING YOUR HOME
ACCORDING TO THE COLOR-CODED MAPS JUST SHOWN ON
YOUR TV SCREEN, OR DO NOT HAVE DETAILED INFORMATION
ON YOUR ASSIGNED EVACUATION ROUTE AND SHELTER,
CONTACT YOUR COUNTY CIVIL DEFENSE/DISASTER
PREPAREDNESS DEPARTMENT. THANK YOU.

THIS IS ONLY A TEST

GLOSSARY

EOS - Emergency Operations Simulation - the type of exercise that was conducted on May 6, 1982. A technique to inform and train the key officials and department heads of a local government as to the decision-making and activities necessary to implement a hurricane evacuation.

EOC - Emergency Operating Center - the protected building from which local government officials perform direction and control in a hurricane approach emergency. Each county and most municipalities have a pre-designated, equipped and manned EOC which was activated on May 6, 1982.

CPA - Closest Point of Approach - The point in time and geographic location of the eye (center) of the hurricane when it is closest to the local area of interest. For example, CPA for a landfalling hurricane is the point in time when its eye reaches the coastline coming off the Gulf of Mexico.

Regional Exercise Control Point - The site where overall control and coordination of the May 6 EOS took place. No actual emergency operations took place here; the operations and activities took place in the four county EOCs, municipal EOCs, and other areas throughout the region. The Regional Exercise Control Point on May 6 was located at the Pinellas County Department of Civil Emergency Services located adjacent to the St. Petersburg/Clearwater International Airport. Hourly schedules of the EOS activities were available to observers and media representatives at this site on May 6.

Regional Meteorological Scenario - The pre-formulated meteorological characteristics and changes in hazards over time of an approaching hurricane. The advisories, local action statements, conference calls, and SLOSH data provide the keys to identifying the extent of evacuation by local response authorities.

Evacuation Level - One of five (5) pre-formulated degrees of evacuation under the Tampa Bay Region Hurricane Evacuation Plan Technical Data Report. Each successive level (A, B, C, D, or E) will require the evacuation of more residents.

County Operations Scenario - A pre-formulated series of emergency events and messages with which county departments and municipal preparedness agencies are spontaneously confronted throughout the simulated hurricane approach and landfall.

Evacuation Zones - Numbered geographic areas bounded by major streets or water bodies that together make up an evacuation scenario. Each resident should know and recognize his/her zone number as evacuation information is needed.

SLOSH - Sea, Lake, and Overland Surges from Hurricanes - An acronym for a computerized storm surge model that forms the basis of the Tampa Bay Region Hurricane Evacuation Plan.

Evacuation Time - The lead time that is necessary to safely evacuate all vulnerable residents to shelter before the hurricane makes landfall.

Evacuation Order - An official statement issued by the Governor or the chief local elected official (Chairman of Board of County Commissioners, Mayor of Municipality) compelling the evacuation of hurricane-threatened areas under authority of Chapter 252, Florida Statutes.

Tampa Bay Regional Planning Council Staff

William A. Ockunzzi	Executive Director
Manuel Pumariega	Administration & Finance
Margaret E. Gross	Administrative Services
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Julia Greene	Social Services
Janet Shields	Division Secretary

EXERCISE PERSONNEL

Project Manager:	David Griffith, Principal Planner, Tampa Bay Regional Planning Council
EOS Coordinator:	Bill Vinson, Tampa Bay Regional Planning Council
Hillsborough County Controller:	Earl Goff, Deputy Director Office of Fire and Disaster Operations
Manatee County Controller:	Jimmie Hamrick, Director Department of Emergency Services
Pasco County Controller:	Ronald Newton, Director Department of Disaster Preparedness
Pinellas County Controller:	Guy E. Daines, Operations Coordinator Department of Civil Emergency Services
National Hurricane Center Controller:	Miles Lawrence, NHC Hurricane Forecaster
State of Florida Controller:	Jeff Hopper and Dan Trescott, Natural Disaster Unit, Bureau of Disaster Preparedness
National Weather Service Controller:	Bill Seiler, Meteorologist NWS Tampa Area
Media Coordinator:	Mary Wiser, Director of Community Affairs Tampa Bay Regional Planning Council
EOS Assistant:	Betti Johnson, Assistant Planner Tampa Bay Regional Planning Council

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